# Multiplex 4CH/8CH/16CH H.264 Network DVR Support 3G/3.5G mobile phone/PDA

**(Symbian/Windows Mobile/iPhone/iPad/Blackberry/Android)**

**Support Mouse**

# User Manual

V1.0

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## CAUTION

**TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER.**
**NO USER SERVICEABLE PARTS INSIDE.**
**PLEASE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

## WARNING

**TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

**NOTE: This equipment has been tested and found to comply with the limits for a Class "A" digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the users will be required to correct the interference at their own expense.**

**FCC Caution: To assure continued compliance, use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.**

**This Class A digital apparatus meets all the requirements of the Canadian Interference Causing Equipment Regulations.**

## LIMITATION OF LIABILITY

- This users' manual is supplied 'as is', with no warranties, be it expressed or implied, including, but not limited to, the implied warranties of merchantability, suitability for any exact purpose, or non-infringement of any third party's rights.

- This publication may include technical inaccuracies or typos. The manufacturer holds the right to introduce any changes to the information contained herein, for any purpose, including but not limited to, improvements of the publications and/or related to the product, at any time, without prior notice.

### DISCLAIMER OF WARRANTY

The supplier shall not be liable to any party or any person, except for replacement or reasonable maintenance of this product, for the cases, included but not limited to the following:

- Any damage or loss, including but not limited to: direct/indirect, consequential, special, exemplary use arising out of or related to the product;
- Inappropriate use or negligence of the user in operation of the product, resulting in personal injury or any damage;
- Unauthorized disassembly, repair or modification of the product by the user;
- Any problems or consequential inconvenience, loss or damage, caused by connecting this product to devices of the third parties;
- Any claim or action for damages, brought by any photogenic subject, be it a person or organization, due to violation of privacy whereby the surveillance picture and/or saved data becomes public or is used for the purpose other than surveillance.

## SAFETY INSTRUCTIONS

- Read these instructions and keep them in a safe place for future reference.
- Please refer all work related to the installation of this product to qualified service personnel or system installers.
- Do not operate the appliance beyond its specified temperature, humidity or power source ratings.
- Place the unit on a flat surface not prone to vibration or impact.
- Use the appliance at temperatures between 0°C ~ +45°C (32°F ~ 113°F) and humidity below 85%.
- The input power source for this appliance is between 90 ~ 264 VAC, 47 ~ 63 Hz.
- Install the unit away from heat sources such as radiators, heat registers and stoves. Installation of the unit near consumer electronics devices, such as stereo receiver/amplifiers and televisions, is permitted as long as the air surrounding the terminal does not exceed the above mentioned temperature range.
- **Handle hard disk drives with care.**
  It is possible to damage hard drives if they are moved while their motors are still running. To

allow the hard drive to spin down and park its heads, wait at least 10 seconds after disconnecting power before moving the unit.
To avoid shock and vibration damage to the internal hard drive, do not move the unit while it is plugged in.
Protect hard disk drives from static electricity.
Do not stack hard disk drives or keep them upright.
Do not use an electric or magnetic screwdriver to fix hard disk drives.

- Do not place the unit in an enclosed area where the cooling vents are blocked or impede the flow of air through the ventilation openings.
- Protect the power cord from being stepped on or pinched particularly at plugs and the points where they exit from the apparatus.
- Do not drop metallic parts through slots. This could permanently damage the appliance. Turn the power off immediately and contact qualified service personnel for service.
- Handle the appliance with care. Do not drop or shake, as this may damage the device.
- Do not expose the appliance to water or moisture, nor try to operate it in wet areas. Do not install the unit in an area where condensation occurs. Do not operate with wet hands. Take immediate action if the appliance becomes wet. Turn the power off and refer servicing to qualified service personnel. Moisture may damage the appliance and also cause electric shock.
- Do not use strong or abrasive detergents when cleaning the appliance body. When the dirt is hard to remove, use a mild detergent and wipe gently.
- Do not overload outlets and extension cords as this may result in a risk of fire or electric shock.
- Please make a note of your settings and save them. This will help when you are required to change the system configuration, or when an unexpected failure or trouble occurs.
- Distributing, copying, disassembling, reverse compiling, reverse engineering, and also exporting in violation of export laws of the software provided with this product, is expressly prohibited.

**CARING FOR THE ENVIRONMENT BY RECYCLING**
When you see this symbol on a product, do not dispose of the product with residential or commercial waste.
**Recycling your Electrical Equipment**
Please do not dispose of this product with your residential or commercial waste. Some countries or regions, such as the European Union, have set up systems to collect and recycle electrical and electronic waste items. Contact your local authorities for information about practices established for your region

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# 1 Starting

## 1.1 Product Specification

| Channel | | 4CH_DVR | 8CH_DVR | 16CH_DVR |
|---|---|---|---|---|
| Interface | Video Input | 4 Channel<br>BNC_1Vp-p_75Ω | 8 Channel<br>BNC_1Vp-p_75Ω | 16 Channel<br>BNC_1Vp-p_75Ω |
| | Audio Input | 4 Channel<br>BNC_2Vp-p_600Ω | 8 Channel<br>BNC_2Vp-p_600Ω | 16 Channel<br>BNC_2Vp-p_600Ω |
| | VGA Output | 1 x D-SUB-15 Connector Max. Resolution: 1024x768@75Hz<br>Support 4：3 and 16：9 display ratio | | |
| | Composite/TV Output | 1 x BNC Connector 1Vp-p_75Ω, One Call out only for 16CH_DVR<br>(VGA and Composite/TV output cannot output concurrently for 4CH) | | |
| | Audio Out | 1 x BNC_2Vp-p_600Ω | | |
| | USB ports | 2 x USB port at real panel | | |
| | RS485/PTZ | 1 x RS485 | | |
| | Network | RJ45 10/100Mbps AUTO MDI | | |
| | Alarm In | 4 pairs | | 16 pairs |
| | Alarm Out | 1 Relay Output | | 4 Relay Output |
| | Power | DC12V/3.5A or DC12V/5A(optional for 2 HDD) | | DC12V/6A or AC 90~264V, 200W(optional for 4 HDD) |
| | HDD Disk | 2 x SATA Ports | | 4 x SATA Ports |
| | | | | |
| Function | User Interface | Multi-Language Support, Mouse Operation, Easy Graphic User Interface,<br>On-Screen Display of Recording, HDD Access and Alarm Status. | | |
| | Record | Normal Record、Motion Detection Record、Alarm Trigger Record.<br>Record Quality (Bit Rate) and Resolution can configure by each individual channel<br>When HDD Storage is Full, DVR Gradually Overwrite Oldest Video Automatically | | |
| | Playback | Time-line Display of 24 Hours footage in Each Day, Easy Drag & Drop Control of Fast Forward and Rewind. Support 4ch/8ch audio/video playback at the same time. | | |
| | Video Backup | Support USB Pen Drive/Flash Disk, Portable HDD, USB CD/DVD Burner, only for AVI format | | |
| | Network | Support PPPOE client, DHCP client, Dynamic DNS.<br>Internet Explorer Client Support Live Monitor, Remote Playback, Remote Upgrade Remove DVR Configure and DVR Status.<br>Support Dual Steaming for Local Recording and Network Transmit. | | |

| | | | | |
|---|---|---|---|---|
| | Mobile Surveillance | Support Nokia Symbian, iPhone 3G/3GS, Windows Mobile | | |
| | PTZ Control | Support Pelco-P、Pelco-D，Samsung , Panasonic Protocol | | |
| | Alarm | Support 4/16 pairs of input connector, 1/4 relay output.<br>Support Multi-Region Video Motion Detection.<br>Both Event Can Trigger Video Record, PTZ Preset Point, E-Mail Notify and Alarm Output Enable. | | |
| | Event Log | Automatic keep track of DVR operation and DVR Alarm History. | | |
| | Configure | System Setting, Live Display Setting, Record and Schedule Setting. | | |
| | Account | Support Multi-User Account. Configurable Operate Authority For Normal User Account. 【Admin 】Super Account With Fully Access Authority and cannot modify. | | |
| Record Function | Compression | H.264 | | |
| | Video System | NTSC / PAL | | |
| | Record Resolution | PAL: 352X288 (CIF) ，704X576 (D1)<br>NTSC: 352X240 (CIF)，704X480 (D1) | | |
| | Frame Rate | CIF: 25fps_PAL / 30fps_NTSC per channel<br>D1: 6fps_PAL / 7fps_NTSC per channel | | |
| | Encode Bit Rete | 256 ~ 2048kbps | | |
| | Live Resolution | PAL: 704x576 (D1)　Horizontal：450 Vertical：450 | | |
| | Playback Resolution | PAL: 352x288 (CIF) 704x576 (D1) | | |
| | Playback Function | 4CH Audio/video playback at the same time, 16x ~ /16 Fast Forward and Single Step Forward. | 8CH Audio/video playback at the same time, 16x ~ /16 Fast Forward and Single Step Forward. | 16CH Audio/video playback at the same time, 16x ~ /16 Fast Forward and Single Step Forward. |
| Audio | Audio | ADPCM | | |
| | Sample Rate | 8KHz | | |
| | Audio Channel | Mono | | |
| | Sample | 16 Bits | | |
| Storage | SATA HDD | Maximum 2TB or 4TB(optional) | | Maximum 4TB or 8TB(optional) |
| | Backup Device | Portable USB HDD, USB DVD/CD Burner, USB Flash Disk | | |

## 1.2 What are inside this DVR package?

When unpack the DVR retail box, you may find the following:

- This DVR device
- This hard copy user manual(for reference only, please refer to soft copy inside the CD for more details)
- Change Notice inserts or file inside the CD root if any change on the DVR operations.
- CD(Manuals, mobile software), please refer to Appendix D for details
- Remote control with battery(option)
- Power adaptor with power cord
- Installation precautions, grounding wire and 4 screws for HDD
- USB Mouse (optional, depends on the model)
- Hard disk drive (optional, the installer may have set up for you), if you would like to install Hard disk drive, please see **Appendix B** for the list of compatible HDDs)

## 1.3 Starting this DVR

### 1.3.1 Before Turning On The DVR

- Please install **SATA HDD** in the Hard Disk Tray. **(**Chapter 2.5 **and Appendix B)**
- Please refer to Chapter 2.4 for all connections.
- **To use the remote controller (**Chapter 2.2**)**
- **If want to use web browser or 3G/3.5G mobile phones from internet, you have to apply the Internet connection service, please contact your mobile service provider for details.**

### 1.3.2 DVR local Setup

- Please wait for about 45 ~ 60 seconds for the system to start up.
- **VGA port and TV(Composite) can not display at the same for 4CH DVR, if can not see the display, please press and Hold □/⊞, ⊞/▦over 5 Seconds and release will switch VGA or TV (CVBS) Output**
- **Please login the system (**Chapter 3.1**), and then physically format the HDDs (**Chapter 4.1.3**). (Please note that the HDD cannot be used for recording if they are not formatted by this DVR yet.)**
- Please refer to Chapter 1.4 for all basic operations path in the Menu Tee
- Please refer to Chapter 4.1.1 to setup the system correctly, esp. for NTSC/PAL, VGA Resolution, Time & Language.
- Please refer to Chapter 4.3.1 for Preview Cruise(Rotation Display) and screen adjustment.
- Please refer to Chapter 4.4 for recording setting.
- Please refer to Chapter 3.2.5, Chapter 3.2.6 to search, playback, and backup the recorded video/audio.
- Please refer to Chapter 4.2.2 for motion Detection, Privacy Mask, Video Lost, and Chapter 4.5 for Alarm setting; and Even Handle as well
- Please refer to Chapter 2.6 for PTZ camera connection, Chapter 4.2.3 and Chapter 3.2.3 to set up and control the PTZ cameras correctly.
- Please refer to Chapter 4.6 for Network Setting including DHCP/Static IP/PPPoE,

ports no., DDNS and E-mail Server

### 1.3.3 DVR Network Setup and Web Browser

- Please refer to Chapter 5 for remote access(live view, playback, backup and set up) via internet or intranet from PC/Laptop
- Please refer to Chapter 6 for remote access via internet or intranet from 3G/3.5G mobile phones(Windows Mobile, Nokia Symbian S60 3rd/ and 5th Edition OS, Google Android, Black Berry OS 4.x and Apple iPhone/iPad.)

### 1.3.4 DVR information after Setup and others

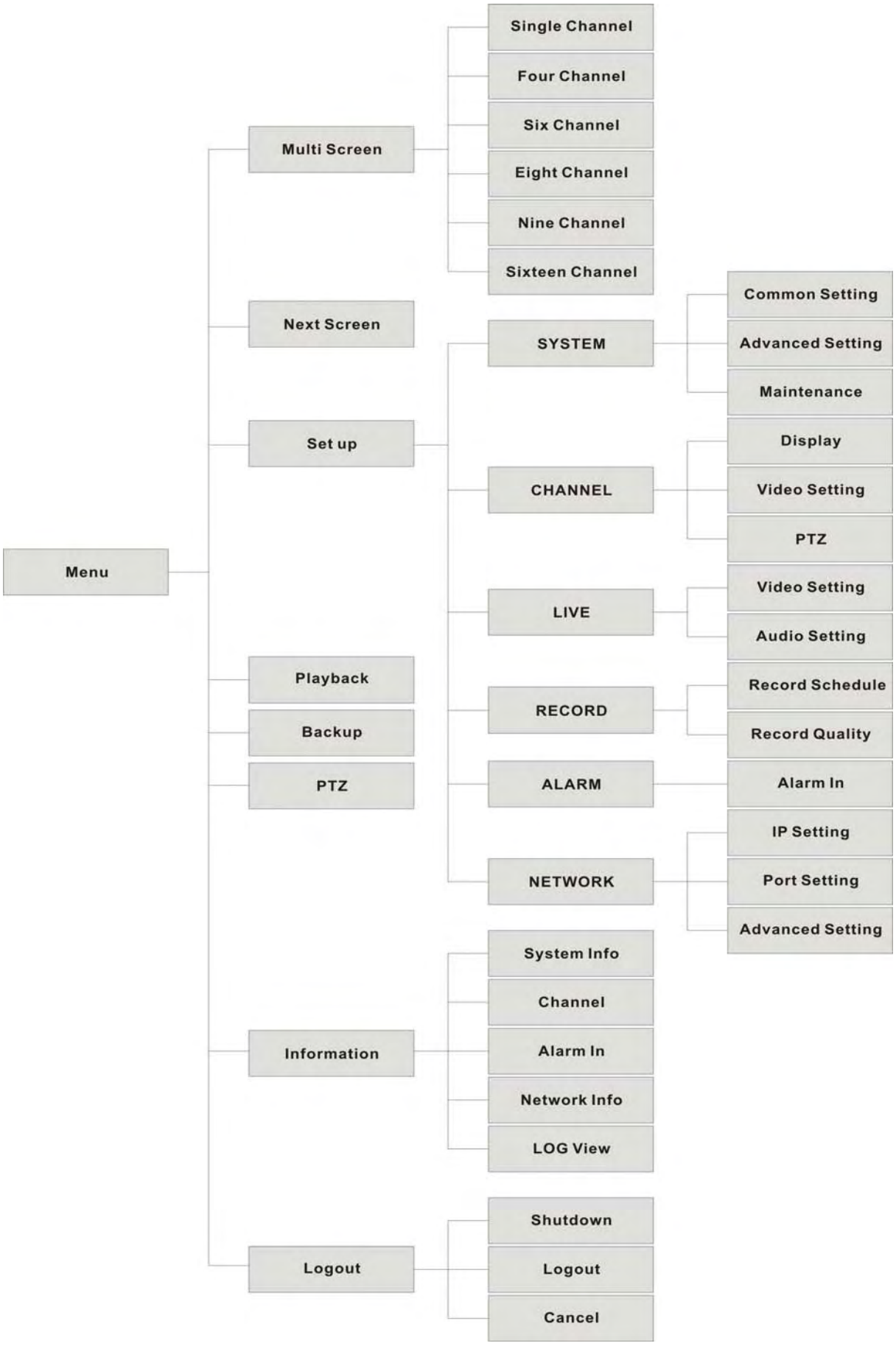
- Please refer to Chapter 7 for trouble shooting if any problems
- Please refer to Chapter 3.2.4(local) or Chapter 5.8(Network) for DVR Device information such as System Info., Channel Status, Alarm Status, Network Info., and LOG
- Please refer to Appendix A for the estimated recording time.
- Please refer to Appendix B and Appendix C for the compatible HDD/USB portable DVD Burner List

### 1.3.5 CD content inside the package

* Multiplex H264 DVR Utility V1.0

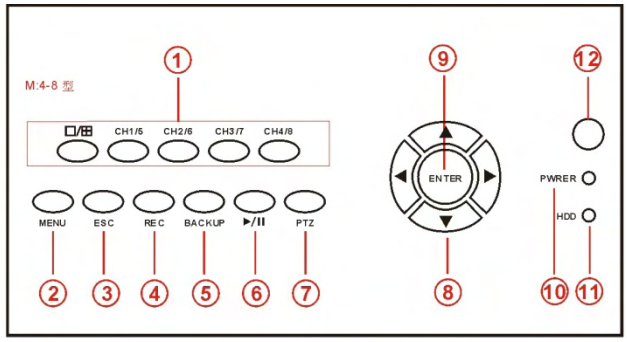
1. DVR User Manual or Change Notice file(if any change) in the root
2. WebOcxClean.dat in the root- to delete the old Active X components from the PC web client if this DVR upgraded by new software or conflicted with other DVR, please close IE before run it
3. Windows mobile software for 5.0/6.0/6.1 Windows PDA: "**amplayersetup.CAB"** in the /Mobile Phone software/Windows Mobile
4. Symbian S60 3rd mobile software: "**QQeye_3rd_240x320.sisx**", or "**QQeye_3rd_320x240.sisx**" in the /Mobile Phone software/Symbian S60 3rd
5. Symbian S60 5th mobile software: "**QQeye_5th.sisx**" in the /Mobile Phone software/Symbian S60 5th
6. BlackBerry software "**QQEye.alx/QQEye.cod**" in the /Mobile Phone software/BlackBerry
7. Android software "**QQeye_ceshi.apk**" in the /Mobile Phone software/Android, p**lease change your Android phone language to be "English" before install**

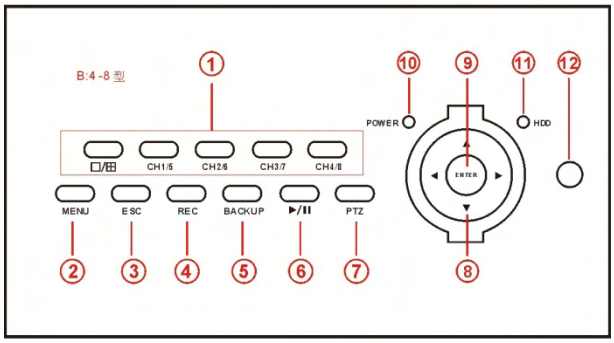
## 1.4 Menu Tree

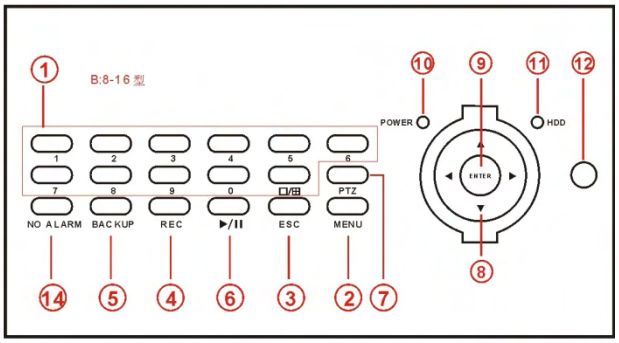

Menu
Multi Screen
Single Channel
Four Channel
Six Channel
Eight Channel
Nine Channel
Sixteen Channel
Next Screen
Set up
SYSTEM
Common Setting
Advanced Setting
Maintenance
CHANNEL
Display
Video Setting
PTZ
LIVE
Video Setting
Audio Setting
RECORD
Record Schedule
Record Quality
ALARM
Alarm In
NETWORK
IP Setting
Port Setting
Advanced Setting
Playback
Backup
PTZ
Information
System Info
Channel
Alarm In
Network Info
LOG View
Logout
Shutdown
Logout
Cancel

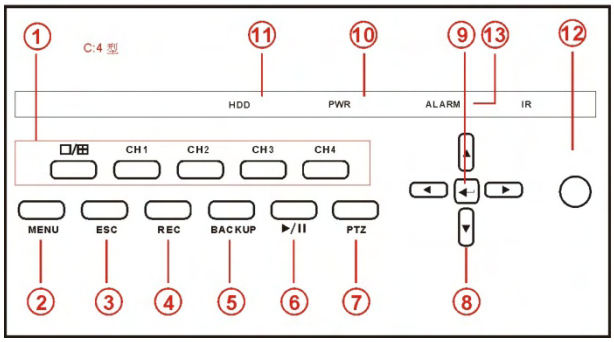
# 2 Hardware Introduce

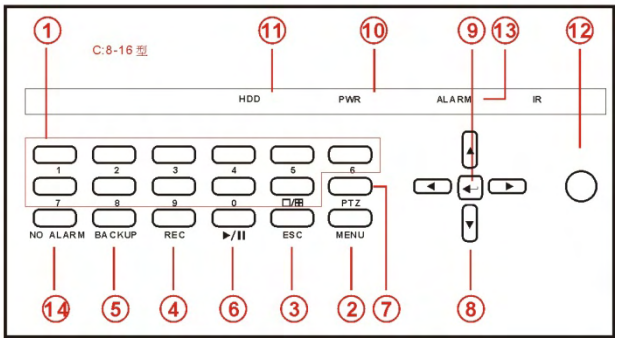
## 2.1 Front panel




1. **CHANNEL 1 ~ 4 / or 1~8/ or 1 ~16,□/⊞, ⊞/▦**

   Using these buttons you can choose to output video on your monitor either as a full-screen view of each of the cameras individually (Channels 1 through 4/*8 depending on the model), or from all Channels simultaneously (Quad).

   **Press and Hold over 5 Seconds and release will switch VGA or TV (Composite) Output**

2. **MENU**

   Displays the main menu

3. **ESC**

   Use this button to exit any active windows

4. **REC**

   **Start or Stop manual recording**

5. **Backup**

   Opens video search and backup menu

6. **Play /Pause (▶/Ⅱ)**

   Open video search and playback menu. When the playback mode is activated press this button to play/pause playback

7. **PTZ**

   (Pan-Tilt-Zoom) High Speed Dome camera functionality

8. **◀、▶、▲、▼、 Enter**

   Use arrow buttons to move among the menu items. Press ◀, ▶ to move to selection boxes, press ▲, ▼ to select submenu parameters. Press **Enter** to confirm your choice

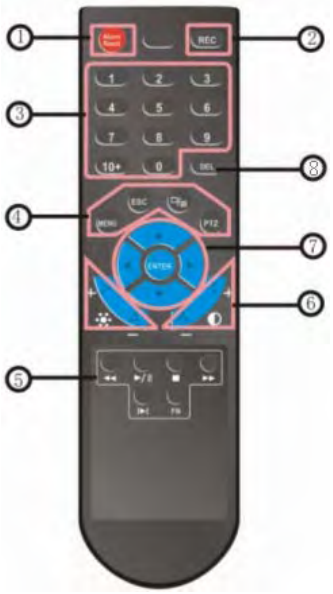
9. **Record LED**

   LED lights indicating DVR recording video.

10. **Power LED**

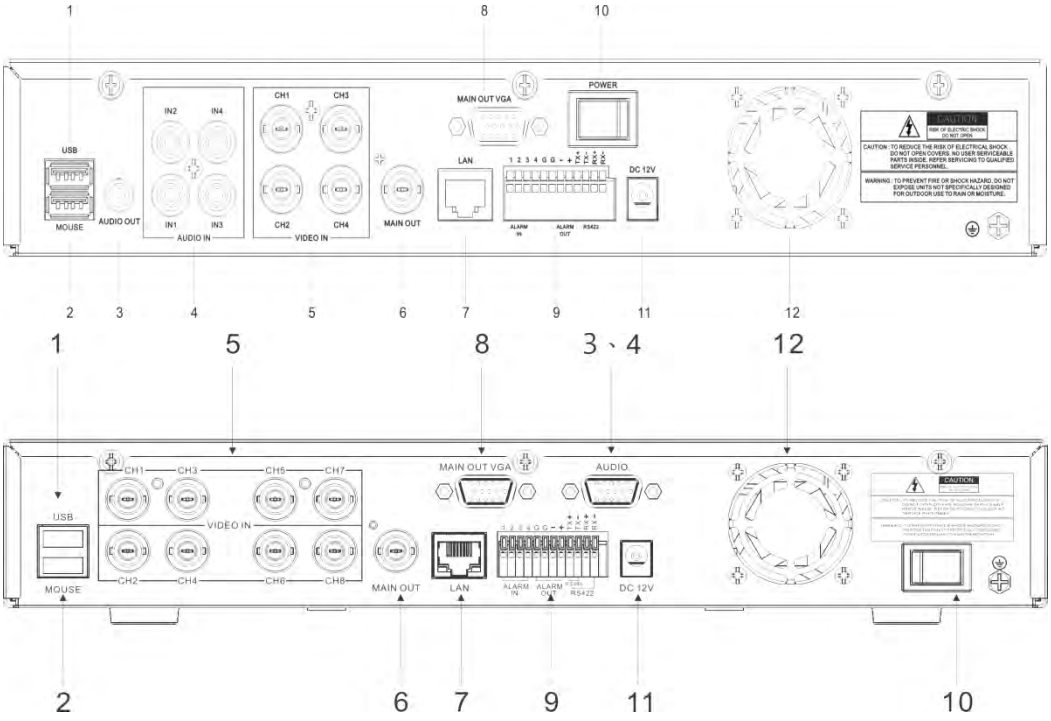
    LED lights indicating your connection to the power supply

## 2.2 Remote Controller

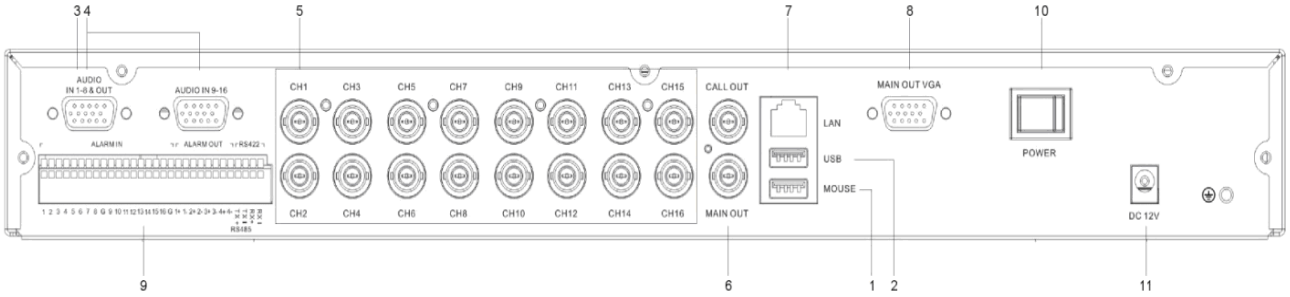


| No. | Name | | Description |
|---|---|---|---|
| 1 | Alarm reset | | Clears the alarm input or alarm output status. |
| 2 | REC | | Manual recording. Has the same function as the button on the device's front panel. |
| 3 | Numeric buttons | | Input numbers or select to change relevant channels. |
| 4 | Functional Buttons | MENU | Enter the main menu. |
| | | | Switch from the single window view mode to multiple split view mode |
| | | ESC | Return to upper menu, same as the ESC button on the front panel |
| | | PTZ | Enable PTZ control, same as the PTZ button on the front panel |
| 5 | Playback Control | | Play in slow mode / rewind |
| | | | Play/Pause |
| | | | Stop |
| | | | Fast forward |
| | | | Go to next frame |
| | | **FN** | Function, access to auxiliary settings. |
| 6 | Picture Adjustment Parameters | | Buttons for adjusting brightness |
| | | | Buttons for adjusting contrast |
| 7 | Arrow Buttons | | Similar to the functions of arrow buttons on the front panel |
| 8 | DEL | | DELETE button |

## 2.3 Real Panel




(4-8CH_DVR Real Panel View)




(16CH_DVR Real Panel View)

1. USB connectors
   **Use these USB ports to connect the backup devices (flash drive, DVD recorder).**
2. USB Mouse Connector
3. Audio Output Connector
   **1 channel audio output, RCA (2Vp-p, 600Ω)**

   **(8ch/16ch will use D-SUB cable for audio input/output)**
4. Audio Input Connectors (AUDIO IN 1-4/1-8/1-16)
   **4 channel audio input, RCA (2Vp-p, 600Ω)**

   **(8ch/16ch will use D-SUB cable for audio input/ouput)**
5. Video Input Connectors (1-4/1-8/1-16)
   **4 channel video input, BNC (1Vp-p, 75Ω)**
6. Video Output Connector(CVBS)
   **Video output to display monitor, BNC (1Vp-p, 75Ω)**
7. Ethernet Connector

**RJ-45 10/100 Base-T Ethernet network**

8. VGA Connector
   **For connecting VGA/LCD monitor**

9. Alarm Input Connectors (ALARM IN 1-4, 5-6 Ground)
   **For connecting to external sensor device** (for 16ch:Alarm in1-8,10-17; 9,18Gronud)

   Alarm Output Connectors (ALARM OUT 7-8)

   **For connecting to external alarm device** (for 16ch: alarm out:1+-,2+-,3+-,4+-)

   RS-422 / RS-485 Connector

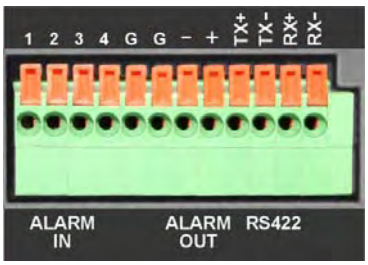
   **For connecting PTZ camera control** ( RS485 :TX+, TX-)

10. Power Switch
11. Power Input Socket (12V DC)
12. Cooling fan/CALL OUT(only for 16CH)
13. Audio Input/output Connector (Only for 8Channel)
    **Connect with attached DB9PIN to RCA cable adapter for audio input/output.**

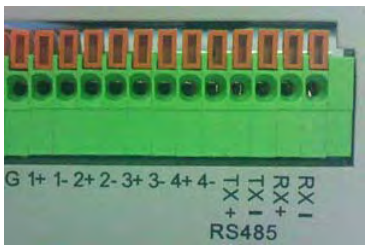
**TV(Composite) and VGA output can not be at the same time for 4CH, please press □/⊞, ⊞/▦ for more than 5 seconds and release to switch**

## 2.4 Basic Input and VGA/TV Output Switch

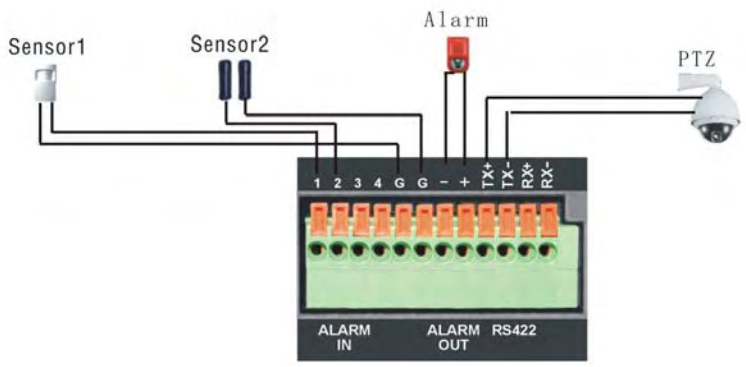
- **Cameras**
  Connect each of the cameras' outputs to the video input socket in the rear panel of the DVR using appropriate cables. The video input interface is a standard BNC connector, 1Vp-p, 75 Ω. Please keep the video signal cable away from strong electromagnetic and electric interference.
- **Audio Connection**
  The audio input interface is a standard RCA socket, 2Vp-p, 600 Ω.
  Please keep the audio signal cable away from strong electromagnetic and electric interference.
  **Remark: for audio input, please consider "ACTIVE MICROPHONE" to increase input voice level for better audio record quality.**
- **Monitor**
  Connect the main output connector to a monitor or a TV screen. Use the BNC-to-RCA connector to work with the Audio/Video RCA cable.
- **Power**
  Please use the 12V DC adapter supplied for connecting your DVR device with the power source.
- **Alarm Input/output**
  Connect Alarm In 1-4 to N.O. (Normally Open) or N.C. (Normally Closed) alarm connectors and one Ground connection. Connect Alarm Out to the corresponding connections and Ground accordingly.




4/8 channel




16channel



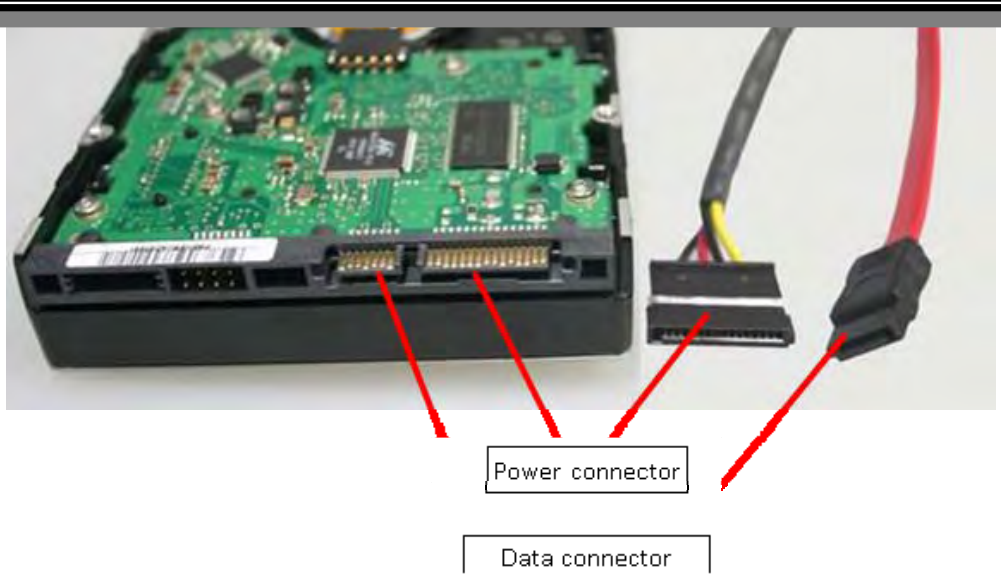

For detailed description please see **Chapter 4.5.1 Alarm In Setting**

- **Ethernet**
  For remote access to the video images from your cameras via LAN or the Internet, please connect the standard RJ-45 twisted-pair Ethernet cable to the Ethernet connector.

- **USB**
  For connecting the mouse, USB flash drive, USB portable HDD, USB portable DVD Recorder (for the list of compatible HDDs see **Appendix 3**, for the list of compatible DVD Recorders see **Appendix 4**).

## 2.5 HDD Install

**Before you can record onto your HDD it should be formatted by the DVR system, because standard PC formatting is not compatible. It can be done in the Maintenance Tab of the Tool Bar Main Menu. Please refer to Section 7.5.3 HDD Manage for the detailed description of this process. Depending on the size of your HDD, the format process can take several minutes.**



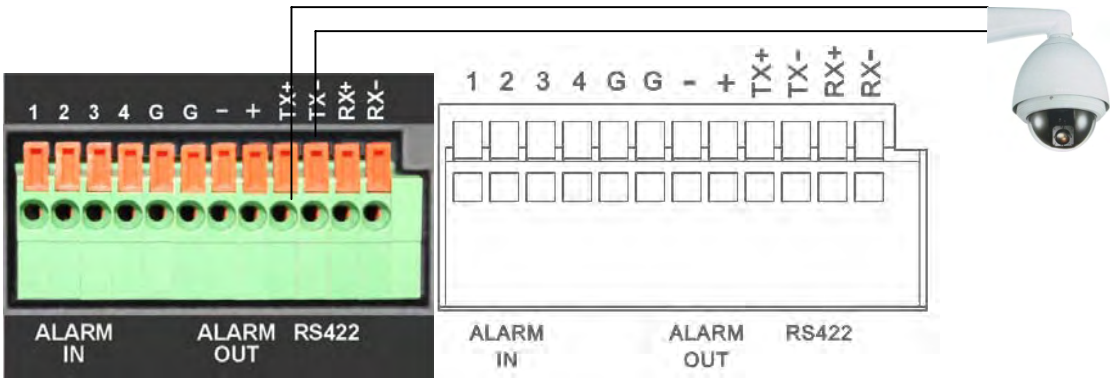

Your HDD should be installed inside the DVR. Please connect the HDD in the standard

way. All necessary cables are delivered with the DVR. Use instructions that came together with the hard drive for exact wiring. Please connect the power cable to the appropriate socket, and the data cables to their corresponding connectors.

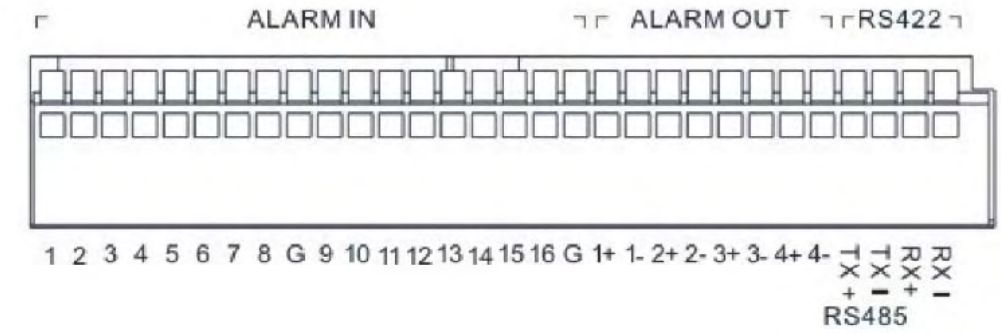
For the list of HDD drives tested for compatibility please see **Appendix 3**.

## 2.6 PTZ Control (RS-485)

Connect the PTZ control jacks to the corresponding RS422/RS485 $T_X$+ and $T_X$- interfaces on the rear panel.




**(4/8 channel DVR)**




(16 Channel DVR)

> For detailed description of PTZ protocols, baud rates and IDs, please refer to the setup section in the PTZ manual.

# 3 Login and Pop-up Menu

## 3.1 Login DVR

Switch on your DVR and wait for the system program to load. If you have not yet installed any hard disk drive into the device, a buzzer will sound and the "*No Hard Disk*" message will appear on the screen, for HDD install and format, please refer to Chapter 2.5 and 4.1.3

When you enter the system you will be asked to log in. Select user name and input password in order to operate the device. Move mouse and click text box to show on-screen keyboard for input text and number. Click "Caps" to capitalize text and click "12@#" to input number. Press OK to confirm or Cancel to clear the field and enter another value.

***Default password for Admin User is "888888"***

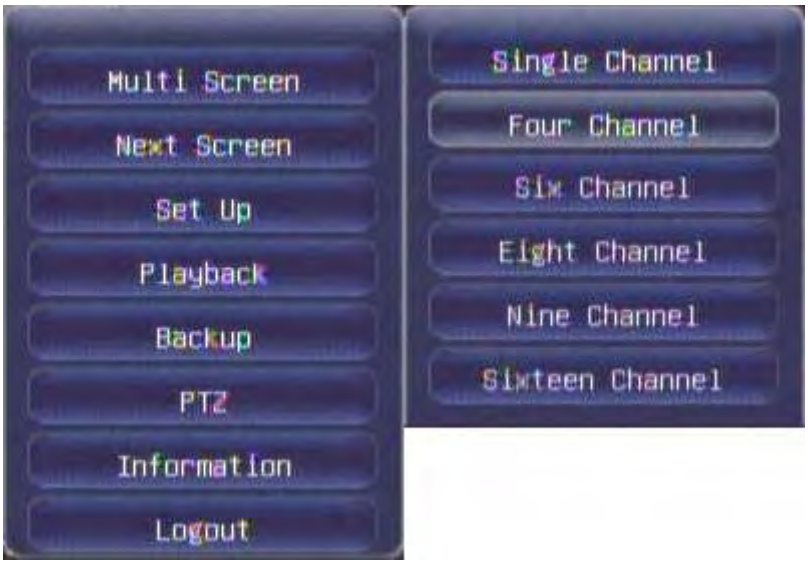
***Press "Play /Pause (▶/Ⅱ)" on the front panel and release until Beep sound will get back to this default password if forget***

## 3.2 Pop-up Menu

After enter DVR live screen, please click mouse right button to open Pop-up Menu:

### 3.2.1 『Multi-Screen』Display

Click 『Multi-Screen』，it will show more display options：




*(PS : 4CH only support single channel or four channel display, 8CH only support Single/Four/Six/Eight channel display.. Other options cannot work)*

### 3.2.2 『Next Screen』Function

4CH DVR：Switch to 『Single Channel』mode, click 『Next Screen』，DVR will switch to next single channel windows in sequence.

8CH DVR：

- Switch to 『Single Channel』mode, click 『Next Screen』，DVR will switch to next single channel windows in sequence.
- Switch to 『Four Channel』mode, click 『Next Screen』，DVR will switch from 1 /2 /3 /4 screen to 5 /6 /7 /8 screen.

- Switch to 『Six Channel』mode, click 『Next Screen』，DVR will switch from 1 /2 /3 /4 /5 /6 screen to 3/ 4/ 5 /6 /7 /8 screen.

16CH DVR：

- Switch to 『Single Channel』mode, click 『Next Screen』，DVR will switch to next single channel windows in sequence.
- Switch to 『Four Channel』mode, click 『Next Screen』，DVR will switch from 1 /2 /3 /4 screen to 5 /6 /7 /8 screen.
- Switch to 『Six Channel』mode, click 『Next Screen』，DVR will switch from 1 /2 /3 /4 /5 /6 screen to 3/ 4/ 5 /6 /7 /8 screen.
- Switch to 『Eight Channel』mode, click 『Next Screen』，DVR will switch from 1 /2 /3 /4 /5 /6 /7 /8 screen to 9/ 10/ 11/ 12/ 13/ 14/ 15/ 16
- Switch to 『Nine Channel』mode, click 『Next Screen』，DVR will switch from 1 /2 /3 /4 /5 /6 /7 /8 /9 screen to 8/ 9/ 10/ 11/ 12/ 13/ 14/ 15/ 16
- Switch to 『Sixteen Channel』mode, click 『Next Screen』，DVR will switch from 1 /2 /3 /4 /5 /6 /7 /8 /9 /10/ 11/ 12/ 13/ 14/ 15/ 16 screen

### 3.2.3 『PTZ』Control Function

There are two modes for 『PTZ』camera control:

**A.** Switch to 『Single Channel』mode，right click mouse to show the Pop-up menu then click 『PTZ』. There is a message bar will show up as picture 3.2.3. **In the meantime, moving mouse cursor to control PTZ camera direction**. **Use mouse wheel to adjust Zoom in / Zoom out function**.

**B.** In multi-screen mode, move mouse and left click to select one channel. Right click to show Pop-up menu and click 『PTZ』. DVR will automatic switch to single channel with PTZ control function.

*(Remark_1: There is no direction icon for PTZ control in this model. Mouse operate only)*

*(Remark_2 : Please configure PTZ protocol in order to control PTZ camera)*

Under PTZ model, right click mouse can open 『Preset』, 『Path』 and 『Cruise』 menu as Picture 3.2.3.1. User can call pre-define PTZ camera position by Preset point. In addition, user can combine multi preset point as Path and Cruise.

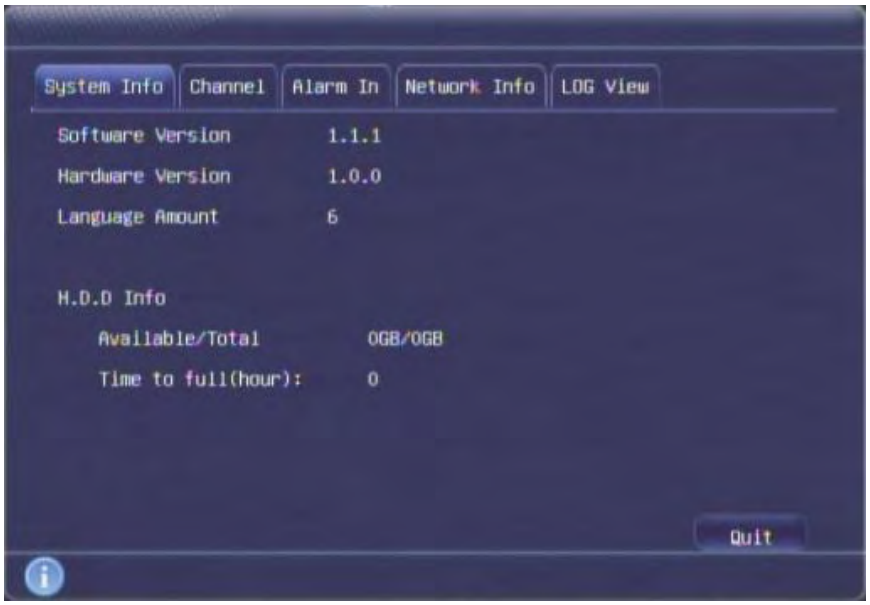
For setting preset point, path and Cruise please refer to PTZ configure chapter.

The icons from left to right are 『Small Iris』, 『Big Iris』, 『Near Focus』, 『Far Focus』, 『Zoom In』 and 『Zoom Out』

### 3.2.4 『Information』Function

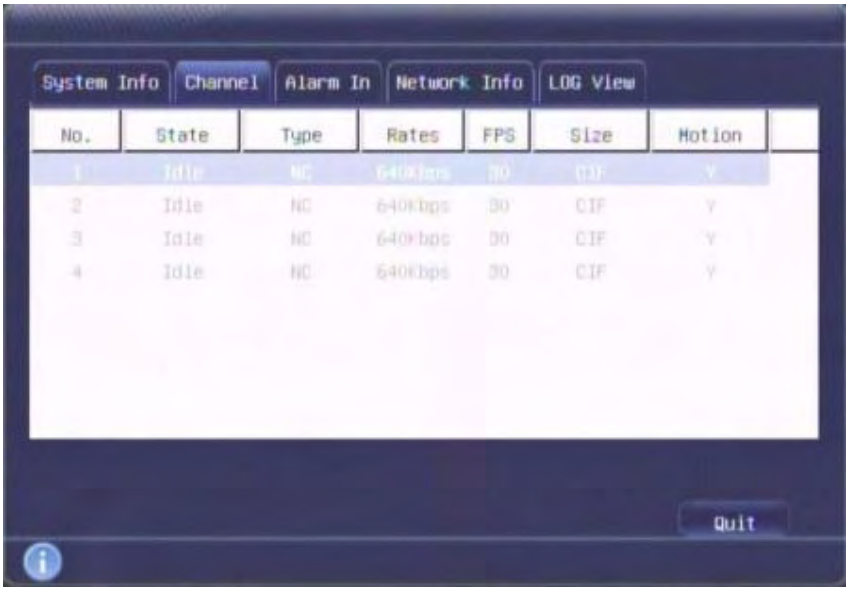
It will shows DVR software/hardware and operating information.

**A. System Info**




- Current Software Version
- Current Hardware Version
- Language Amount (how many language options for this DVR)
- Hard Disk Info:
  a. Available Free Disk Space /HDD Total Space
  b. How Many Hours Remain for Record

## B. Channel

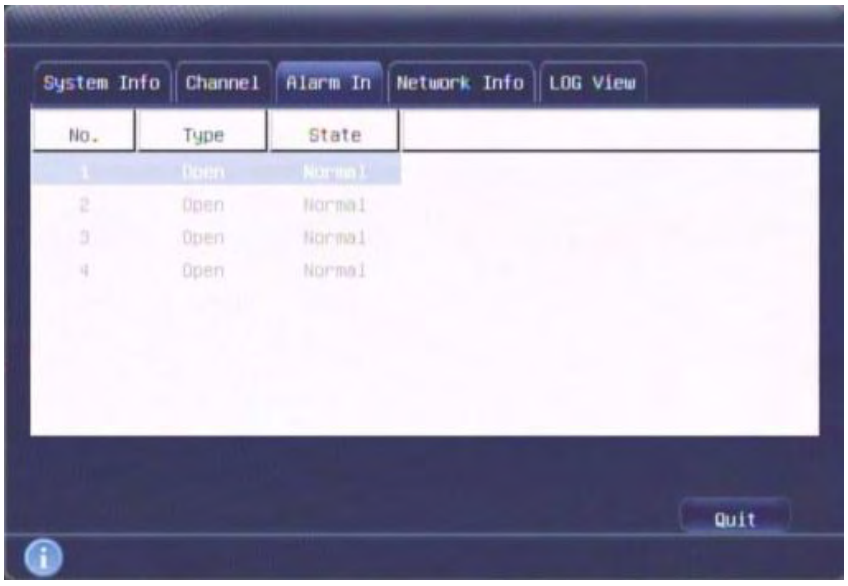



It will show record parameter for each channel:

- No(Channel No.).: 1 ~ 4 or 1 ~ 8 CH or 1 ~ 16CH
- Status(Recording):
- Type(Recording): Manual, Motion or Alarm.
- Rates: Recording bit Rate
- FPS : Recording Frame Rate:
- Size: Resolution (D1, Half D1 or CIF)
- Motion: Indicate whether motion detected

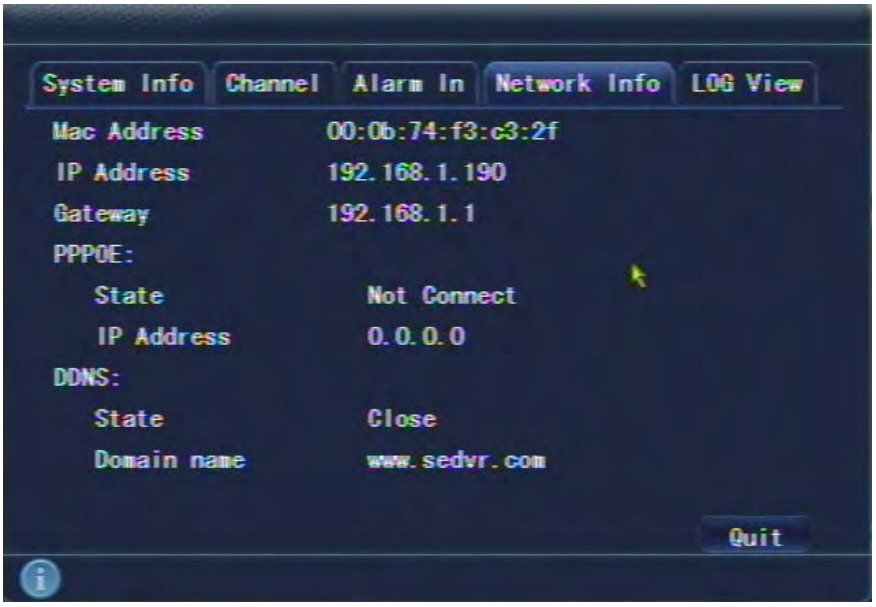
*(PS. Click Column name can sort by the content, user can use mouse to move Column borders to see wording clearly in case of being hidden )*

## C. Alarm In



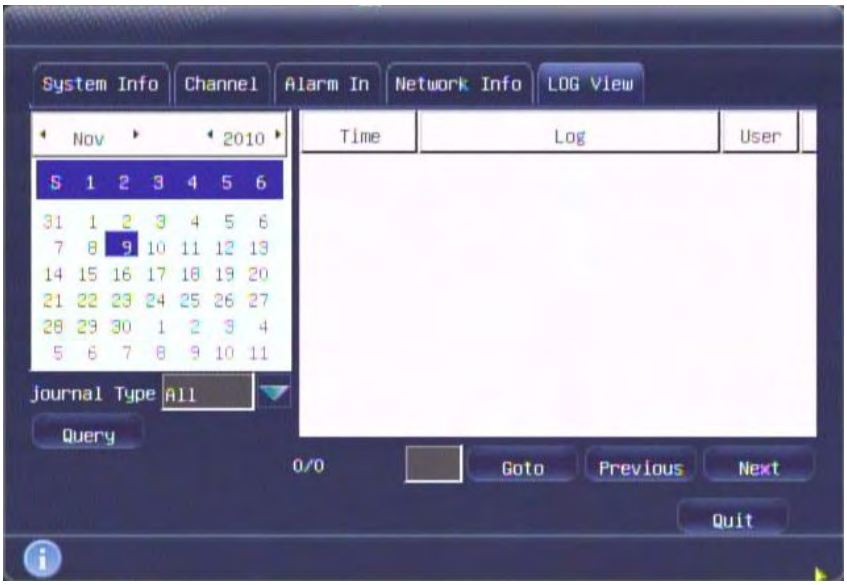

- No. - Channel Number, Display 1 ~ 4 or 1 ~ 8 CH or 1 ~ 16CH
- Type : Normal Open(NO) or Normal Close (NC)
  Status：Display equipment status in normal or alarm triggered.

## D. Network Info




- MAC Address : Each DVR must have unique MAC address
- IP Address: Current DVR IP address
- Gateway: Network gateway IP address
- PPPoE Dial-up:
  - State：it will show if 『Connected』f PPPoE dial-up successful, in contrast it will show 『Not Connect』.
  - IP Address: it will show current IP address after PPPoE connected.
- DDNS：
  - State：when DDNS function was enable in DVR it will show 『Open』. In contrast, it shows 『Close』.
  - Domain name：show current domain name setting.

## E. LOG View




- Adjust year by click ◄ ► icon
- Adjust month by click ◄ ► icon
- Decide target query date by mouse left click in calendar window

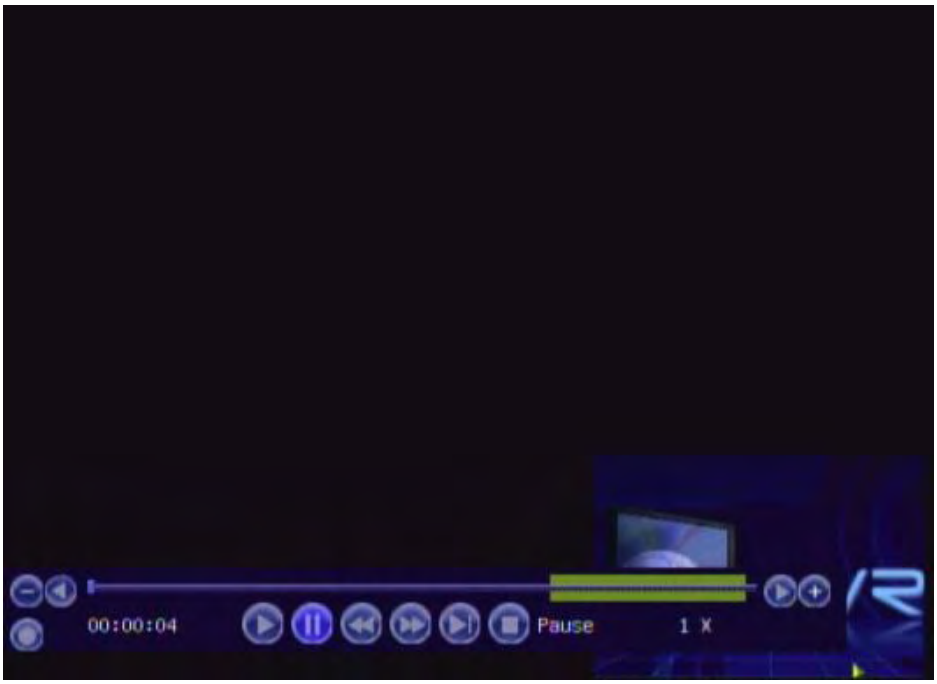
- Choose 『Journal Type』from following options『All, Operation, Abnormal and Event』
- Click 『Query』, DVR start search data and list in right window
  Click column header can sort journal list
  After Query, it will show the page list, you can click 『Previous』/『Next』 or input page no., and click『Goto』to find the page

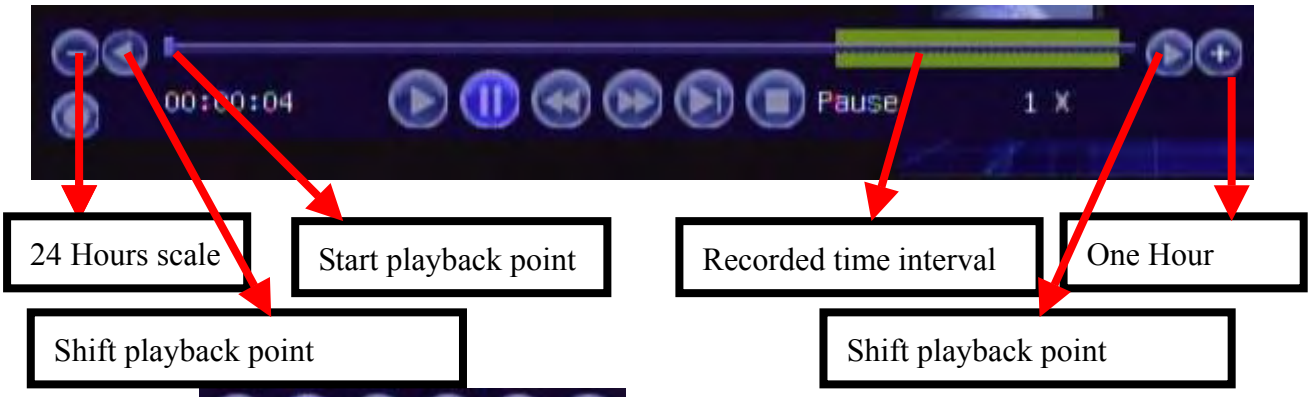
*(User can use mouse to move Column borders to see wording clearly in case of being hidden )*

### 3.2.5 『Playback』Function

It will show the screen as below; the dates being recorded will have lighter color(brown one).

Pick up a date and click 『**Play**』as below:






, from left to right they are 『**Play**』, 『**Pause**』, 『**Fast backward**』, 『**Fast forward**』, 『**Step**』 and 『**Exit**』

Move the 『**Start playback point**』 to the 『**Recorded time interval** 』 and 『**Play**』, it will show all the channels as below:

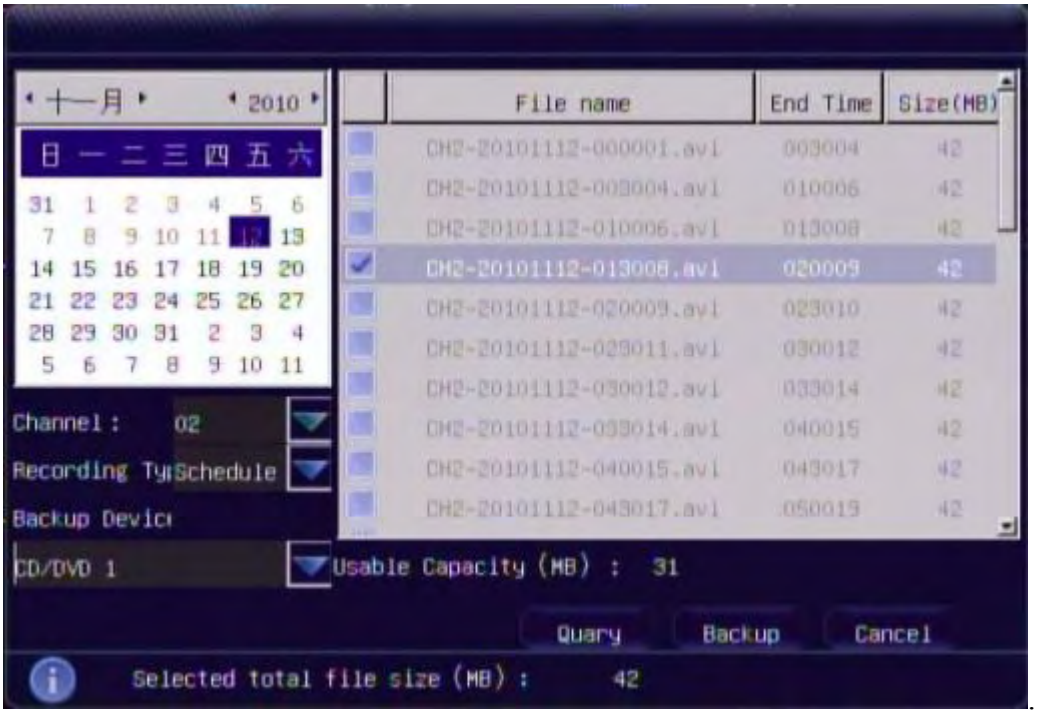
***Please note you can not choose individual channel for playback.***

Click the information on the left down corner, to see on the OSD bottom as below to show 4 channels recording status (**BLUE**) at one time

Use to see other channels recording status for 8CH/16CH DVR, it will show 4 channels at one time

### 3.2.6 『Backup』Function

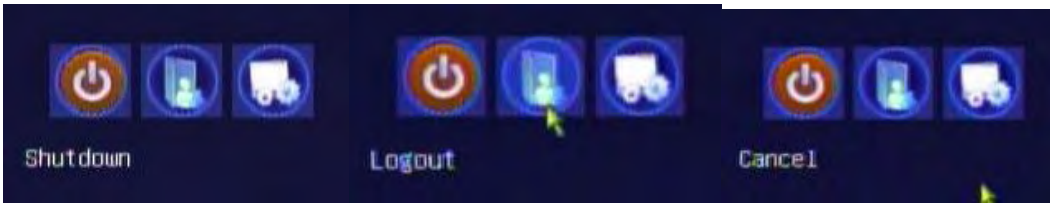
Before doing this, please put the USB device like Pen Drive, portable USB HDD/DVD Writer into the DVR USB port, otherwise it will show “Not found USB device”.




Select the『Date』, 『Channel』,『Recording Type』(All, Schedule, Motion, and Alarm), and 『Backup Device』, click 『Query』 to find the necessary files, to be listed on the right window, click the ☐ to choose the files and 『Backup』to start. It will show the Usable Capacity(MB) of the『Backup Device』, and will show “no more space to backup” if files capacity selected over Usable Capacity, and “Backup Completed!” if finished.
The backup format is only AVI with head, can be played in any players like WMP, VLC and Quick time, H264 codec, which can be download from below link: http://kmplayer.kde.org/, http://codecguide.com/, http://mpc-hc.sourceforge.net/

### 3.2.7 『Logout/Shutdown』Function

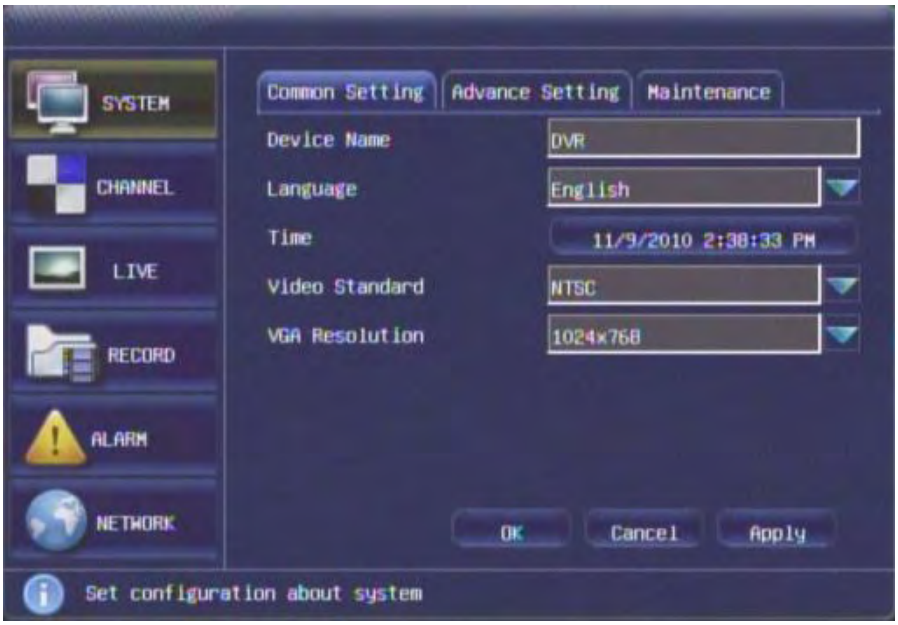
It will show the screen as below, you can choose 『Logout』, 『Shutdown』(shutdown the system) or『Cancel』(back to system):



# 4 DVR System Configure

## 4.1 SYSTEM Tab

### 4.1.1 『Common Setting』

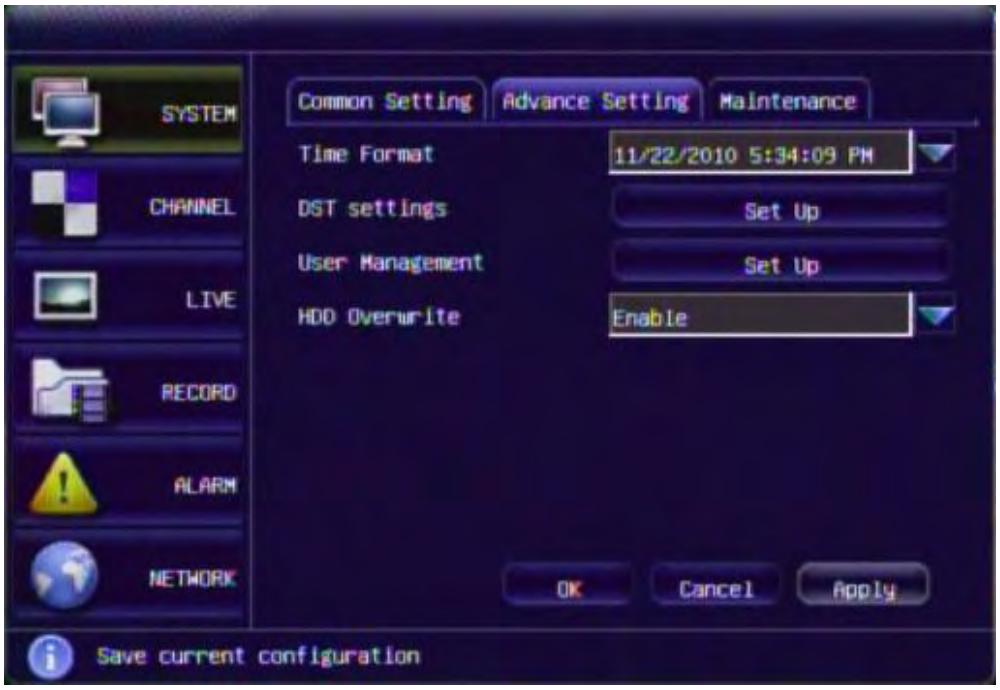



- **Device Name**：Use On-Screen to input DVR name
- **Language**：Click ▼ icon to select language of screen text
- **Time**：Display current Date and Time. Left click to modify value.
-

- **Video Standard**：Click ▼ icon to select NTSC or PAL system.
- **VGA Resolution**：Click ▼ icon to select VGA output resolution
  only 1024 x 768 available now

***(Remark_1: Make sure your Monitor support target resolution before apply setting)***
***(Remark_ 2: Adjust resolution setting only under VGA output mode)***
***(Remark_ 3: VGA output and TV output cannot output at the same time)***

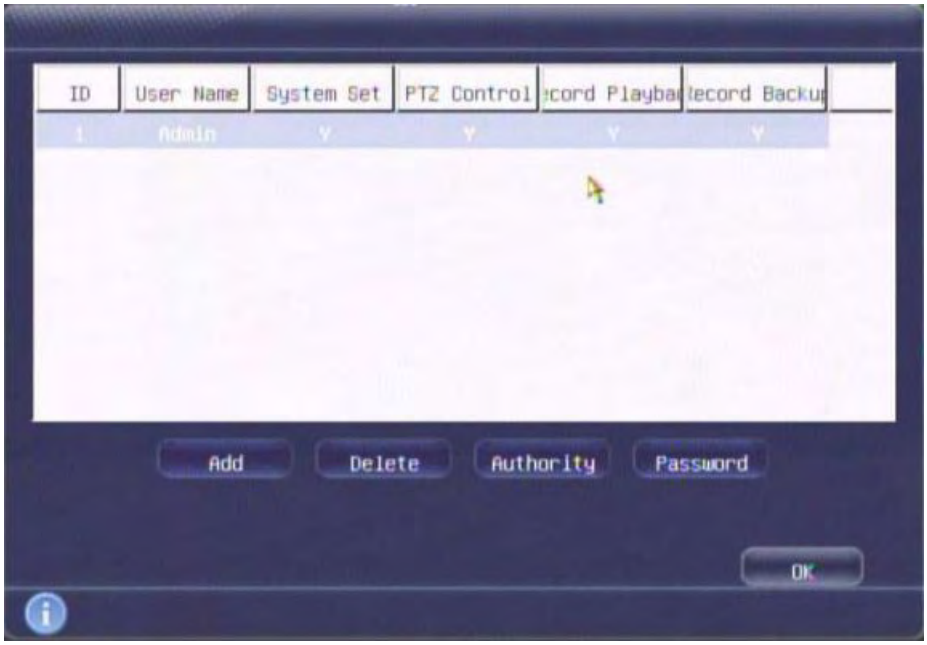
## 4.1.2 『Advance Setting』




- **Time Format**：Click ▼ icon to select different format
- **DST settings**：Click 『Set Up』to open sub setup window as below

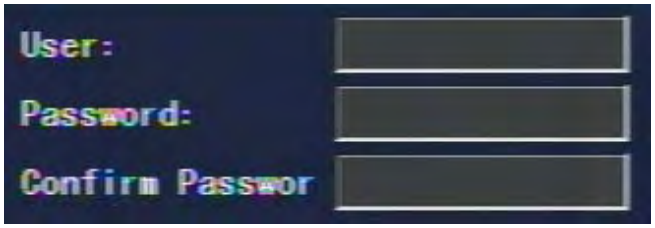
Set up the DST(Saving Time) Start Time and Stop time so that system time will be adjusted automatically when matched.

- **User Management**：Click 『Set Up』to open sub setup window
  it also shows user operation authority




*(User can use mouse to move Column borders to see wording clearly in case of being hidden )*

- Click 『Add』 button to add new user account as follow window

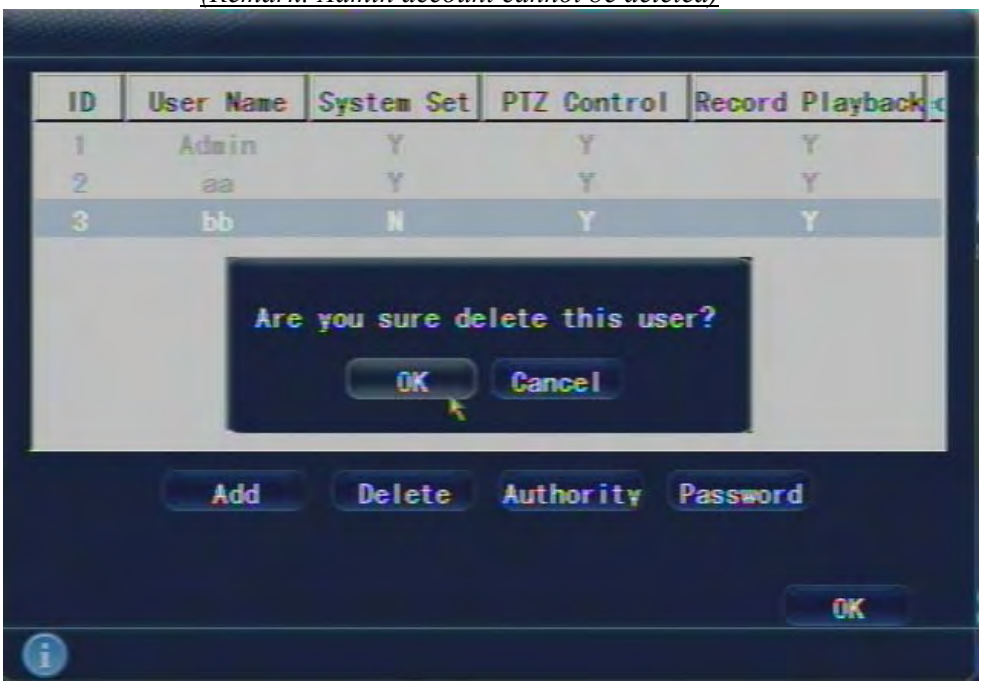



Click text box to open On-screen keyboard for input text and number.

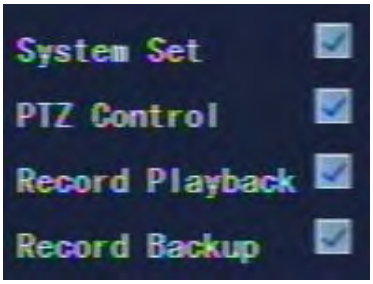
**Admin user cannot modify user account's password after create account. Only login user can modify its own password.**

- 『Delete』：Select user account from list to delete.

*(Remark: Admin account cannot be deleted)*




『Authority』：Configure user authority for follow DVR operations




Click ☐ icon to enable or disable authority operation of certain user

『Password』：**Only login user can modify its own password.**

***Press "Play /Pause (▶/Ⅱ)" on the front panel and release until Beep sound will get back to Admin default password if forget***

- **HDD Overwrite**：if set「Enable」then DVR will automatic overwrite oldest data when HDD storage is full. If set「Disable」then DVR will stop record when HDD storage is full.

### 4.1.3 『Maintenance』

- **HD Management**: Click『Set Up』to open sub window and format HDD in DVR proprietary file system format.

Prior to recording video and audio feeds your HDD must be formatted by the DVR device. You must be logged in as Administrator to format HDD.

- **Software Upgrade**: Click『Set Up』can open sub windows to upgrade DVR

firmware by USB flash disk.

- **Factory Default :** get back to factory default setting
- **Export Configuration :** output this DVR setting to external USB device like pen drive for other DVR set up use
- **Import Configuration :** input other DVR setting from external USB device like pen drive, to save time for set up

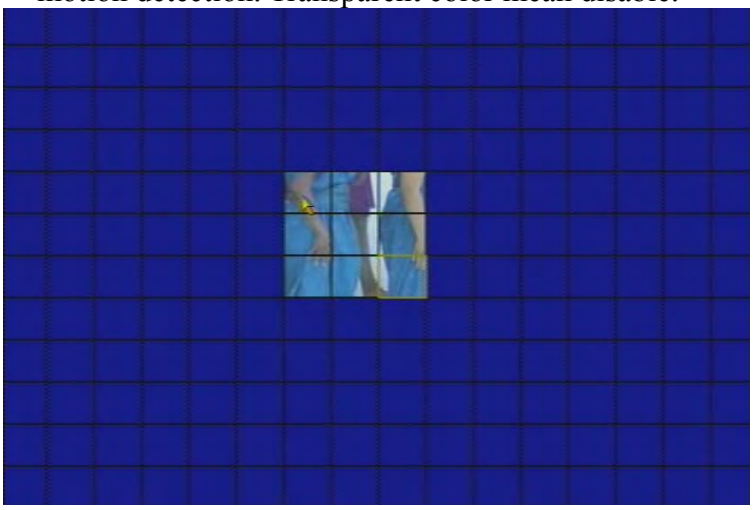
## 4.2 CHANNEL Tab

### 4.2.1 『Display』Setting

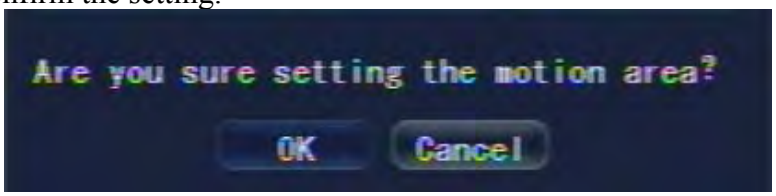
- **Channel**: Click ▼ icon to select channel number to apply setting or select 「ALL」to apply setting to every channel.
- **Channel Name**: Click text box to open On-Screen keyboard and input channel name or description.

### 4.2.2 『Video Setting』

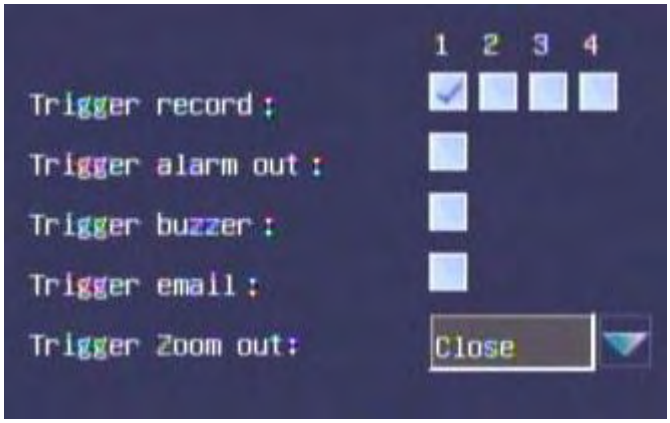
- **Channel**: Click ▼ icon to select channel number to apply setting or select, 「ALL」to apply setting to every channel.
- **Motion Sensitivity**: Click ▼ icon to selects from [Low, Middle, High, and Highest] from the list or choice [Disable] to switch off motion detection function.
- **Motion Area**: Click『Set Up』to open sub window and configure motion area block by block. Left Click to change state, blue color means enable motion detection. Transparent color mean disable.



Right click mouse to exit and save setting. DVR will pop-up message box to confirm the setting.



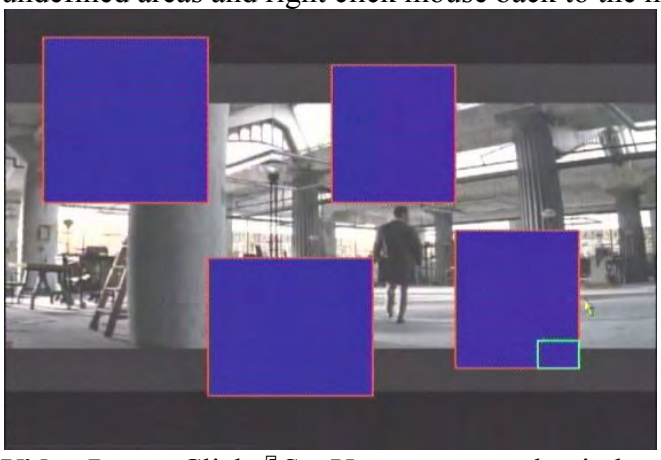

- **Event Handle**：Click『Set Up』to open sub window and configure action.



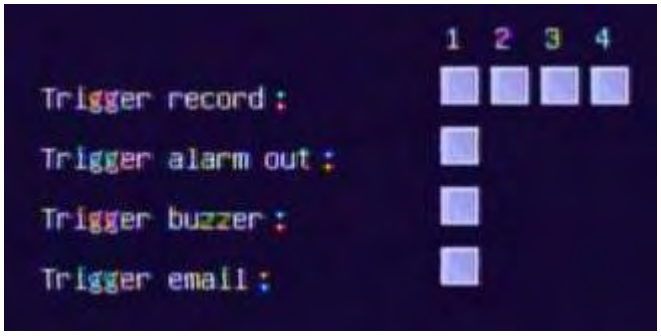

  - Trigger record: when certain channel has motion triggered, DVR can record multiple channels(1 ~4/8/16)
  - Trigger alarm out: Enable or disable alarm output when motion triggered.
  - Trigger buzzer: Enable or disable buzzer output when motion triggered.
    Trigger email: Enable or disable email sending when motion triggered
  - Trigger Zoom out: Select the channel for zoom out when motion

trigger

- **Primary Mask**: Click『Set Up』to open sub window and configure privacy protection area most to 4 blocks by left click mouse, and being recorded; blue color means enable, right click mouse to disable it; move mouse to undefined areas and right click mouse back to the menu.

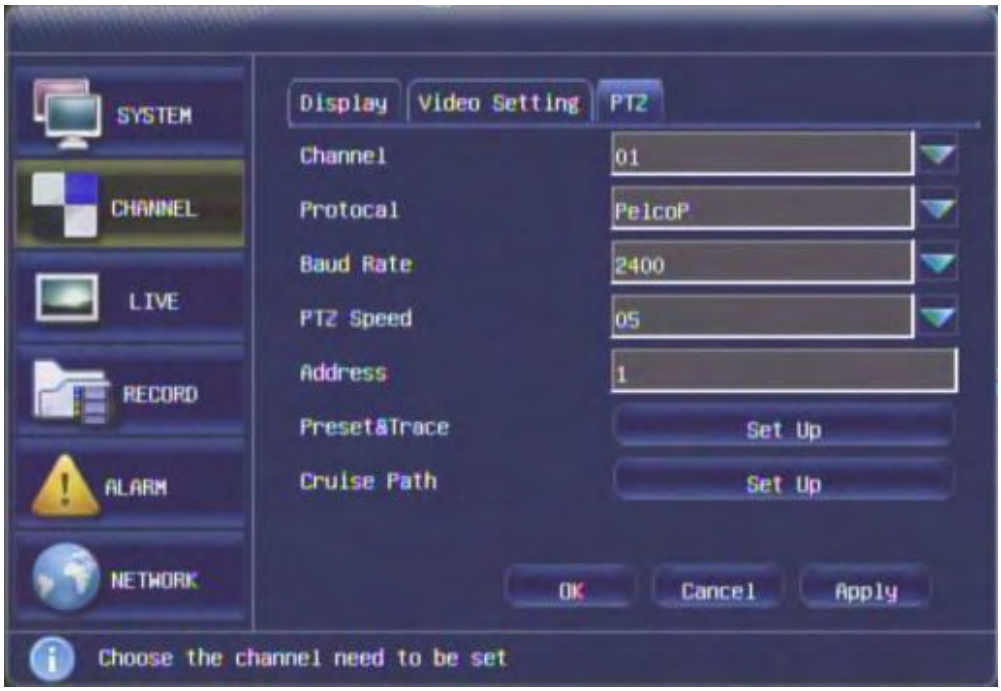


- **Video Lost**：Click『Set Up』to open sub window and configure action.




  - Trigger record: when certain channel has motion triggered, DVR can record multiple channels(1 ~4/8/16)
  - Trigger alarm out: Enable or disable alarm output when motion triggered.
  - Trigger buzzer: Enable or disable buzzer output when motion triggered.
    Trigger email: Enable or disable email sending when motion triggered

## 4.2.3 『PTZ』Setting

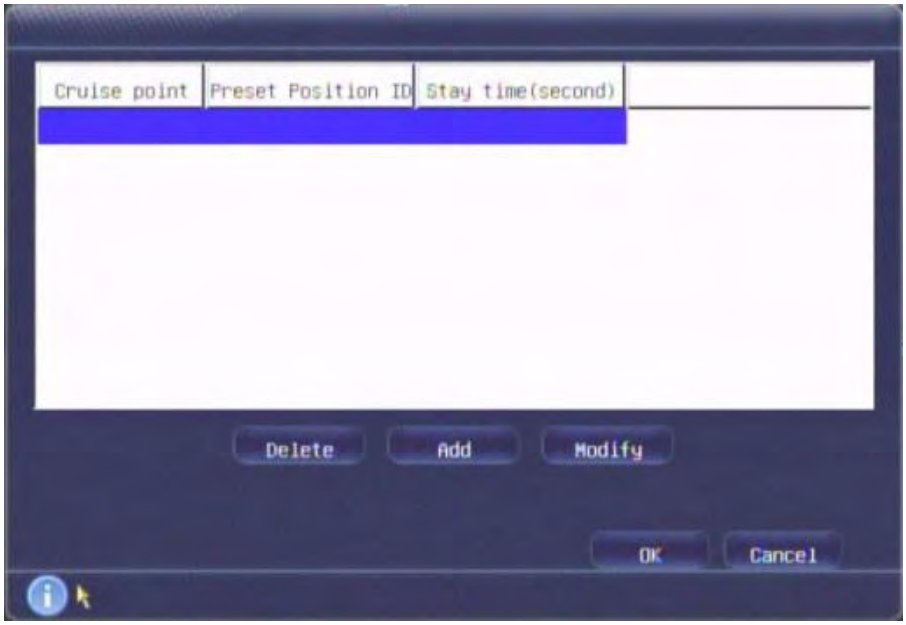



- **Video**: Click ▼ icon to select channel number to apply setting.
- **Protocol**: Click ▼ icon to select PTZ protocol from 『SAMSUNG、PelcoD 、PelcoP、Panasonic』.
- **Baud Rate:** Click ▼ icon to select PTZ baud rate from 1200 /2400 /4800/9600bps
- **PTZ Speed**: Click ▼ icon to select camera speed from 01~16.
  Bigger value mean camera move fast.
- **Address**：PTZ camera ID address. Please check ID address from camera.
- **Preset and Trace**: Click『Set Up』to open sub window

  - Preset: Move camera position by mouse and adjust zoom ratio by scroll mouse wheel. Choose number and click [Set.] to save preset point.
    Move camera to different position and click [Call] to test setting.
  - Path: Click [Rec.] at the beginning. Move camera to different position

or adjust zoom in/out ratio by mouse. DVR will save camera moving path accordingly. Click [Stop] to save setting.

- **Cruise Path**: Click『Set Up』to open sub window




  - There are totally 8 preset point can add to cruise path. Each preset point can assign how many seconds to hold before move to next point.

*(Remark: 8 preset point can duplicate , ex.  01 → 02 → 03 → 05 → 01 → 08)*

## 4.3 LIVE Tab

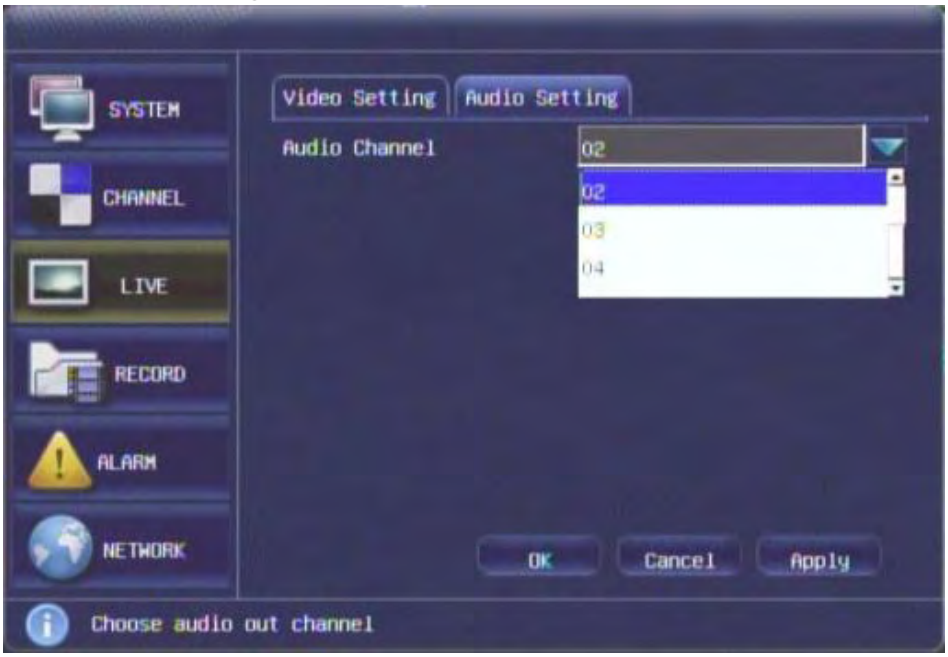
### 4.3.1 『Video Setting』

- **Video Setting**：Select main video output interface from CVBS(TV Composite Signal) or VGA.
  ***(Remark: CVBS and VGA cannot output at the same time for 4CH )***
  *(Remark: Configure VGA output resolution for your monitor before apply setting)*

***Press and Hold*** □/⊞, ⊞/▦ ***over 5 Seconds and release will switch VGA or TV (CVBS) Output***

- **Preview cruise time**：Select the rotation display interval (5 sec., 10 sec……60sec.) or Close
- **Preview cruise way**：Select the rotation display way, there are Single Channel, Four Channel, Nine Channel
- **Screen Adjustment** ：Adjust the display screen if not right, select Display Port(CVBS/VGA), and click the , , , to adjust

## 4.3.2 『Audio Setting』




- **Audio Channel:** Since only one audio channel can play in one time, click ▼ icon to select default audio channel when in LIVE screen. 01 ~ 04 or 01 ~ 08 or 01 ~ 16
  *(Remark: This default audio channel will play only in multiple screen model, ex 4/6/8/9/16 screen. When DVR switch to single screen by double click mouse, audio will also switch to curtain audio channel accordingly.)*

## 4.4 RECORD Tab

### 4.4.1 『Record Schedule』 Setting

- **Channel**: Click ▼ icon to select channel to apply setting.
- **Record Audio**: Select record type [Video & Audio] or [Video].
- **Record Schedule:**：Click『Set Up』to open sub window

- Each block represents 『1 Hour』in a day. Click left mouse to change state in sequence of each block. Drag mouse on curtain block and copy state to other block. Each color's define were described in the window(**white means no record**)

- 『Copy Parameter』: Copy schedule settings to other channel.
  Click ▼ icon to select from 『ALL』 or 『01 ~ 04 or 01 ~ 08 or 01 ~16』

## 4.4.2 『Record Quality』Setting

- **Channel**: Click ▼ icon to select channel number to apply setting.
- **Bit Rate:** Click ▼ icon to select record quality from 8 different bit rate → 256K/384K /512K /640K /768K /1M /1.5M /2M bps

*(Remark: High bit rate have better video quality but consume more storage space)*

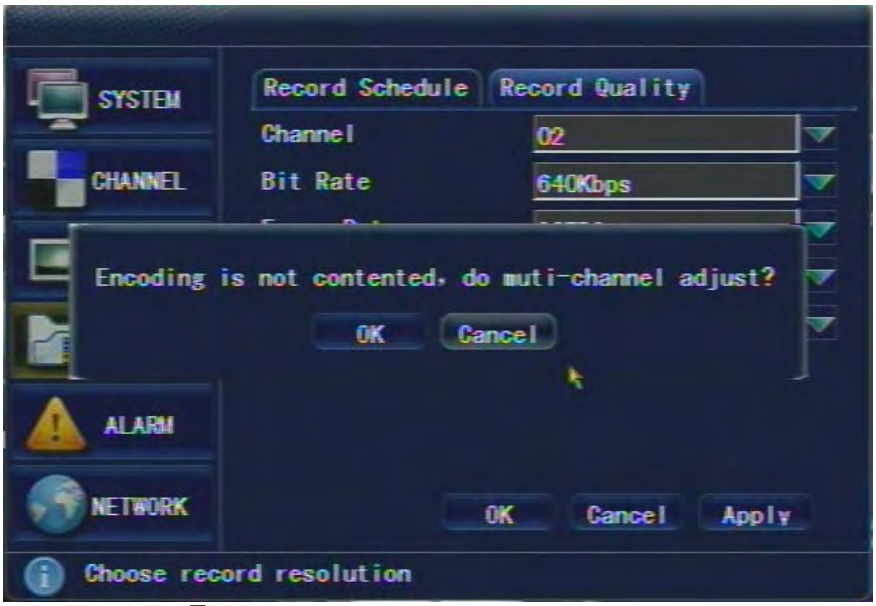
- **Frame Rate:** Click ▼ icon to select record quality from 6 different frame rate → 1 /3 /6 /12 /25 /30 FPS

*(Remark: Higher frame rate mean more smooth movement in video and consume more storage space)*

- **Resolution:** Click ▼ icon to select record resolution from 3 different size → **CIF /Half D1 /D1**

*(Remark_1 Higher resolution have more clear video and consume more storage space.)*

*(Remark_2: 4CH DVR total frame rate is 30fps at D1 solution and 60fps in Half D1 resolution; 8CH DVR total frame rate is 60fps at D1 resolution and 120fps in Half D1 resolution. 16CH DVR total frame rate is 120fps at D1 resolution and 240fps in Half D1 resolution.**If total frame rate exceed system maximum limit then system will show sub window for user to adjust frame rate and resolution channel by channel.**)*



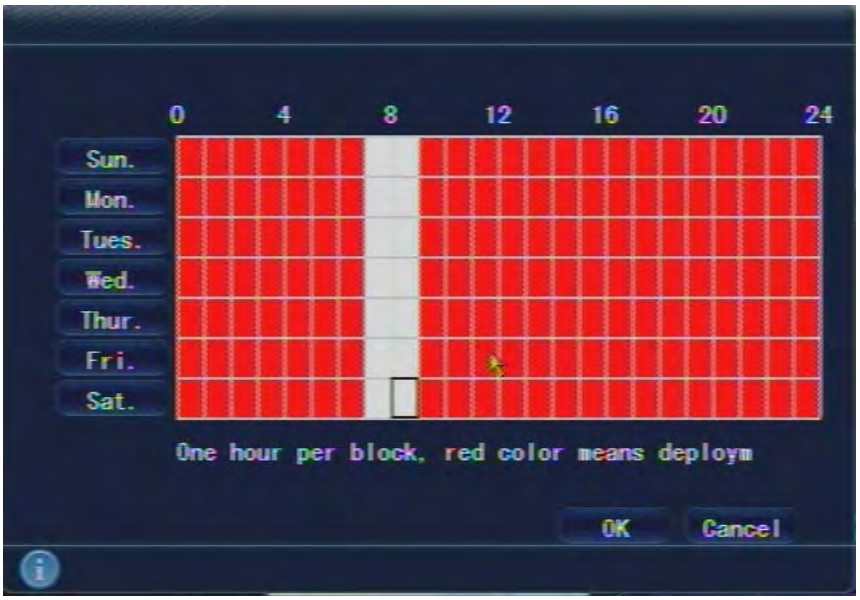

*Click 『OK』 to open sub window*

*Choose Size(Resolution) and Frame Rate channel by channel.*
*System will calculate total frame rate automatic for reference*

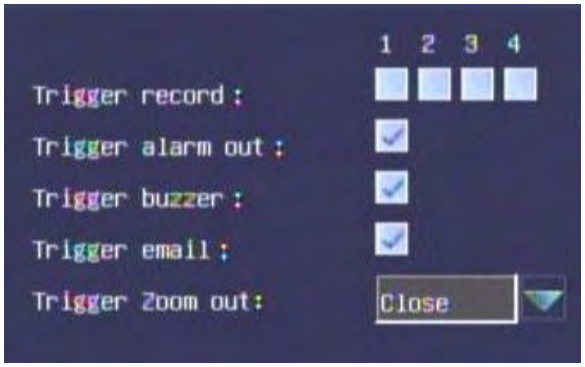
## 4.5 ALARM Tab

### 4.5.1 『Alarm In』Setting

- **Alarm Input Channel:** Click ▼ icon to select alarm input channel number to apply setting.
- **Type:** Click ▼ icon to select alarm input type → N.O. or N.C.
- **Deploy Schedule:** Click『Set Up』to open sub window




  - Each block represents 『1 Hour』in a day. Click left mouse to change state of each block. Drag mouse on curtain block can copy state to other block. Red color mean enable alarm input and gray color mean disable.
- **Event Handle**：Click『Set Up』to open sub window and configure action




- Trigger record: when certain channel has alarm input triggered, DVR can record multiple channels.
- Trigger alarm out: Enable or disable alarm output when alarm triggered.
- Trigger buzzer: Enable or disable buzzer output when alarm triggered. Trigger email: Enable or disable email sending when alarm triggered
- Trigger Zoom out: Select the channel for zoom out when alarm trigger

## 4.6 NETWORK Tab

### 4.6.1 『IP Setting』

- **IP Setting**:

  Your DVR supports several methods of being viewed online. No matter which method is used, your DVR must first acquire an IP address, which it does via 2 different methods.
  - Automatic acquisition of the IP address by the **DHCP** client model.
  - Manual indication of the IP address by the **Static IP** model.

  Thus, this field offers two options: Static IP and DHCP. Toggling these will either make the three following fields changeable (in manual mode) or not (in auto mode); these fields are: IP Address, Subnet Mask and Gateway.

  For exact data on your network and explanation of network settings,

please contact your network administrator or Internet service provider.

- **IP Address/Subnet Mask/Gateway/DNS Address**：Display current one. If choose Static IP mode, click text box to input them by On-screen keyboard.

### 4.6.2 『Port Setting』

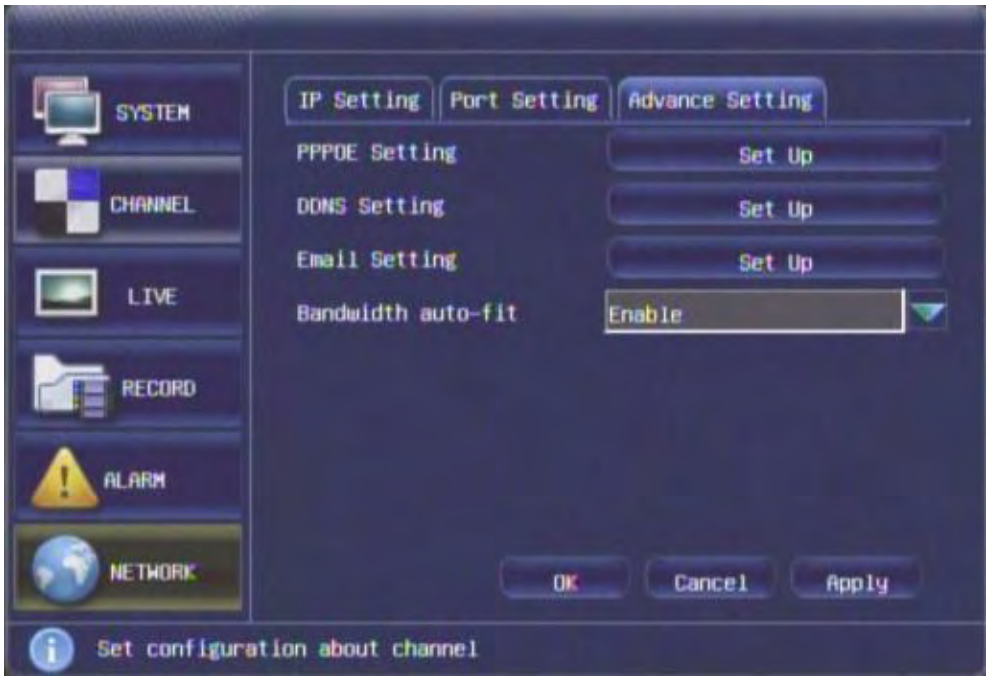
- **HTTP Port:** Default port number is 80 for any web browser. Click text box can modify port number.
- **Command Port:** DVR use port number: 6001 transmit control signal. Click text box can modify port number.
- **Media Port:** DVR use port number: 6002 transmit media data. Click text box can modify port number.
- **Mobile Port:** DVR use port number: 6003 transmit data to mobile phone. Click text box can modify port number.

*(Remark: mobile surveillance software need to configure the same port number as above setting)*

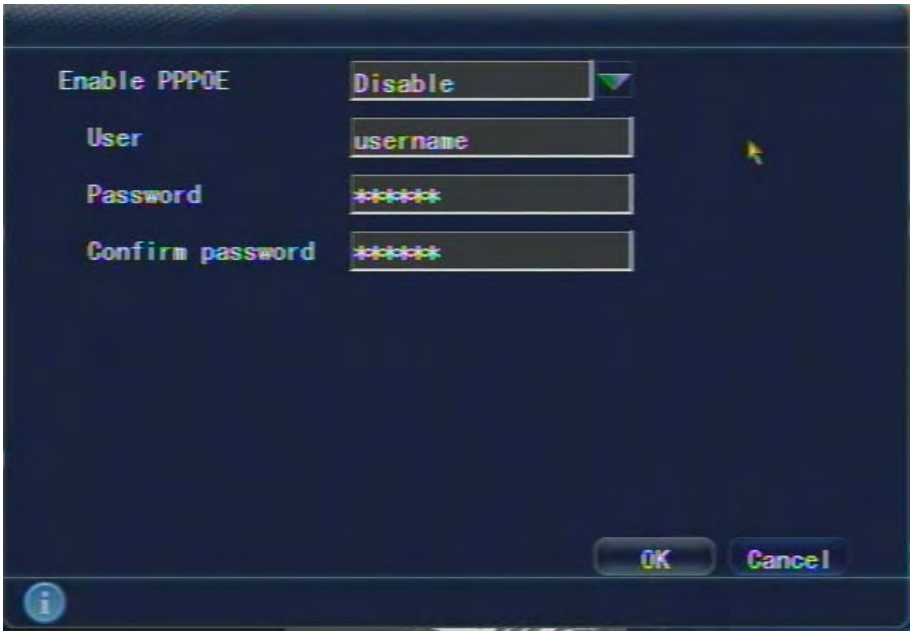
**If DVR installed behind a Router to share a single public IP address. Be sure to configure the "Port Forwarding" or "Virtual Server" for those three network port and Mobile surveillance Port:6003; you may surf http://portforward.com for more information.**

**Http port:80, Command port:6001, Media port:6002 and mobile surveillance port:6003 must open/allow to upload to WAN interface if DVR installed behind a Firewall server; for port no. available, please refer to http://www.iana.org/assignments/port-numbers for more information**

### 4.6.3 『Advance Setting』




- **PPPoE Setting:** Click『Set Up』to open sub window




If enable PPPoE dial up service for internet connection, you must input the ADSL user account name and password. You can get this data from your Internet Service Provider.

- **DDNS Setting**：Click『Set Up』to open sub window
  If your DVR connect to internet via floating IP address environment, In order to connect your DVR via network, you may choose to use the services of a Dynamic DNS service.

Your DVR comes with several DDNS server names built-in. **To be able to use these servers, you need to go to the associated website to register for an account. Once registered, you input the DDNS account, password and choose the name of the DDNS Server from the list by pressing the arrow buttons located at both ends of the corresponding field**. Afterward, it should automatically connect.

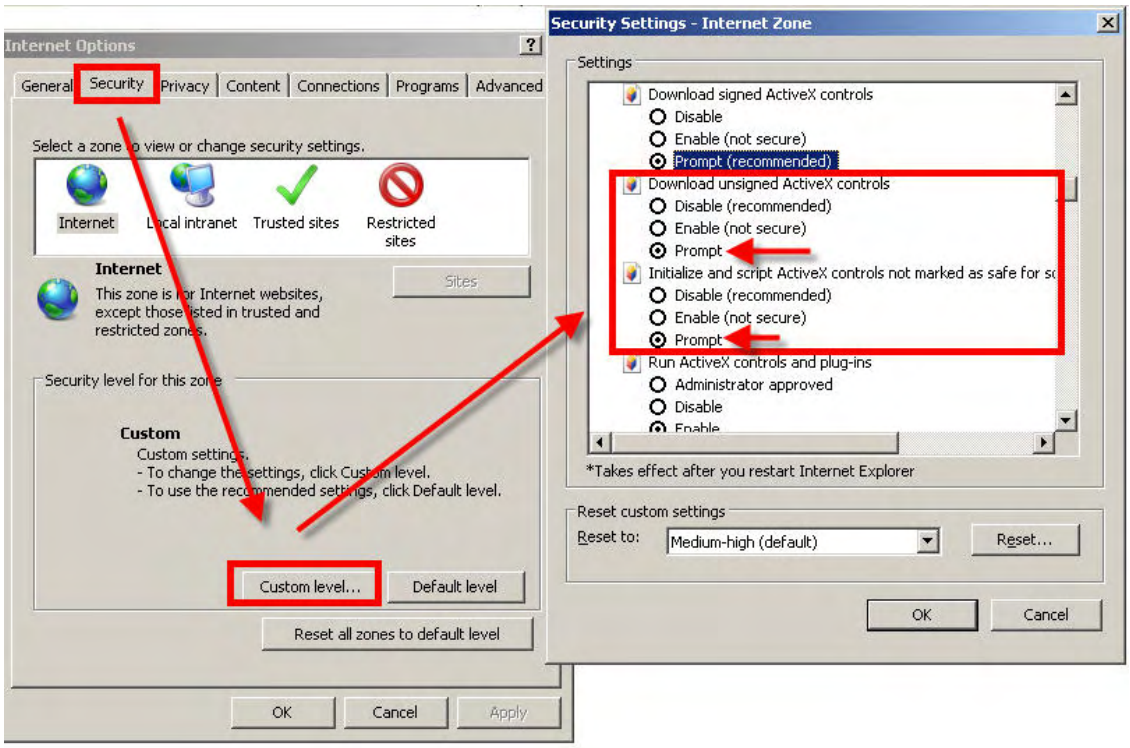
- **Email Setting:** Click『Set Up 』to open sub window

  - From: Sender's email address
  - To: Receiver's email address, you can separate multiple Receivers by space
  - Email Server (SMTP): Input IP address of your e-mail server.
  - Port: Port number of your e-mail server, by default is 25.
  - SSL/TLS: Please check e-mail server administrator whether use
  - Email password: Sender's email account password.
- **Bandwidth auto-fit:** Enable DVR automatic adjusts video quality lower in order to transmit smooth video while network bandwidth insufficient special for mobile view.

# 5 DVR Network Surveillance with Web Browser

## 5.1 Enable Download Un-signed Active Control if necessary

User's computer need download ActiveX components for web access at the first time connect to DVR. If user's Internet explorer prohibits the download action(the DVR software is unsigned) then please manually enable the download of un-signed ActiveX in IE.




Download unsigned ActiveX controls→ Enable or Prompt
Initialized and script ActiveX controls not marked as safe → Enable or Prompt

## 5.2 Turn off UAC for Windows 7 and Vista

To prevent unexpected troubles by ruing IE or CMS, we strongly suggest to disable UAC(User Account Control) for Windows 7 and Vista. To perform the following procedure, you must be able to log on with or provide the credentials of a member of the local **Administrators** group.

| **Important** |
| --- |
| Turning off UAC reduces the security of your computer and may expose you to increased risk from malicious software. We do not recommend leaving UAC disabled. |

**To turn off UAC**

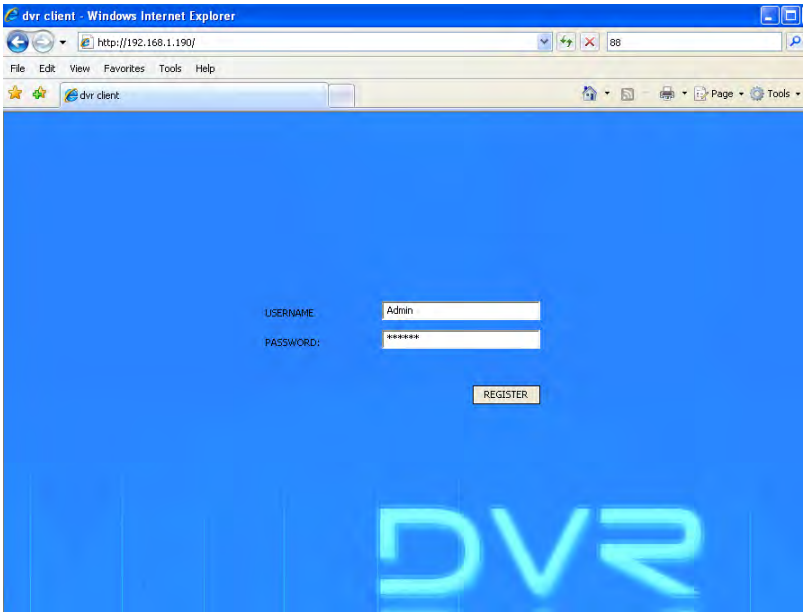
1. Click **Start**, and then click **Control Panel**.
2. In **Control Panel**, click **User Accounts**.
3. In the **User Accounts** window, click **User Accounts**.
4. In the **User Accounts** tasks window, click **Turn User Account Control on or off**.
5. If UAC is currently configured in Admin Approval Mode, the **User Account Control** message appears. Click **Continue**.
6. Clear the **Use User Account Control (UAC) to help protect your computer** check box, and then click **OK**.

7. Click **Restart Now** to apply the change right away, or click **Restart Later** and close the **User Accounts** tasks window

Source info: http://technet.microsoft.com/en-us/library/cc709691.aspx

## 5.3 Microsoft Internet Explorer (IE)

Open Microsoft Internet Explorer (IE) and input DVR's IP address. Following is the main login screen when IE connected to DVR.

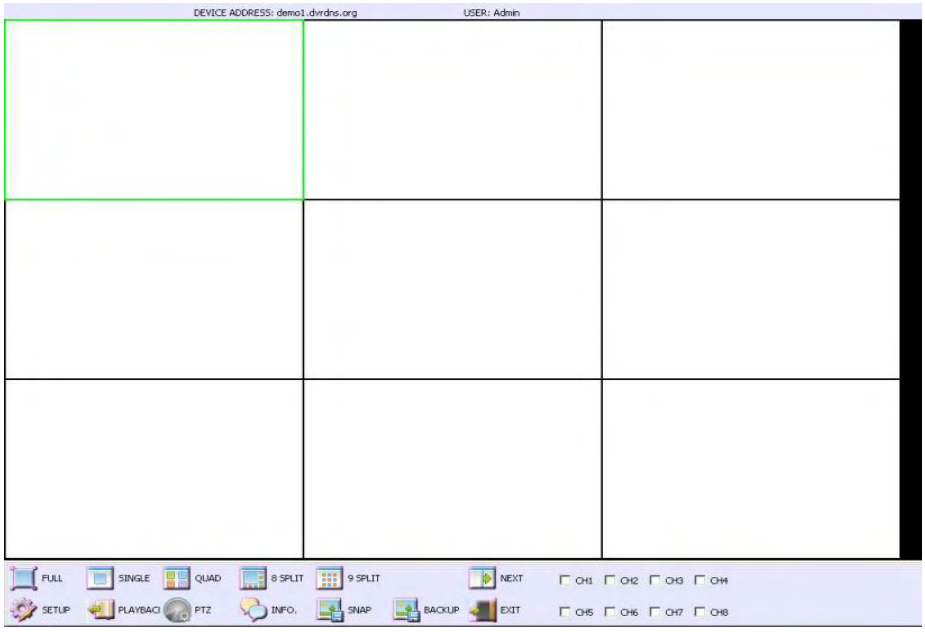



**The default password of Admin account is 888888**

■ If has upgraded this DVR for new version software or conflict with other DVR components, you may use the batch command file "WebOcxClean.dat" inside the CD to clean old components from client PC before use**(Appendix D)**

IE Main Screen

Following is the DVR main window after login successfully.



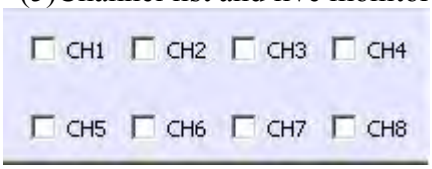
- (1)Display current DVR IP address on the top
- (2)Display current login user account name on the top
- (3)Camera screen , it can display 4ch or 9ch or 16ch multi channels screen.
- (4)Function Toolbar

Click to capture single picture of video, the path can be setup in 5.3.1 『DEVICE PARAMETER』

Exit Web client(IE)

Others are described details following

- (5)Channel list and live monitor switch



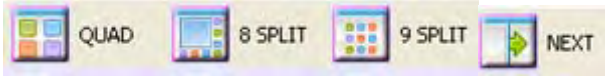

Move mouse to certain camera screen(Green) and click channel no. enable to start display live video there, it would allow you to allocate each cameras display on different position of the screen, same rule applied to SINGLE/QUAD/8 SPLIT/9SPLIT/16SPLIT screen.

## 5.4 Operation – Full Screen/Multi Window

Click this icon to put IE browser window to full screen and click again back to normal screen

*(Remark: when switch to full screen mode, the Toolbar will automatic re-arrange position upon monitor display ration 4:3 or 16:9)*

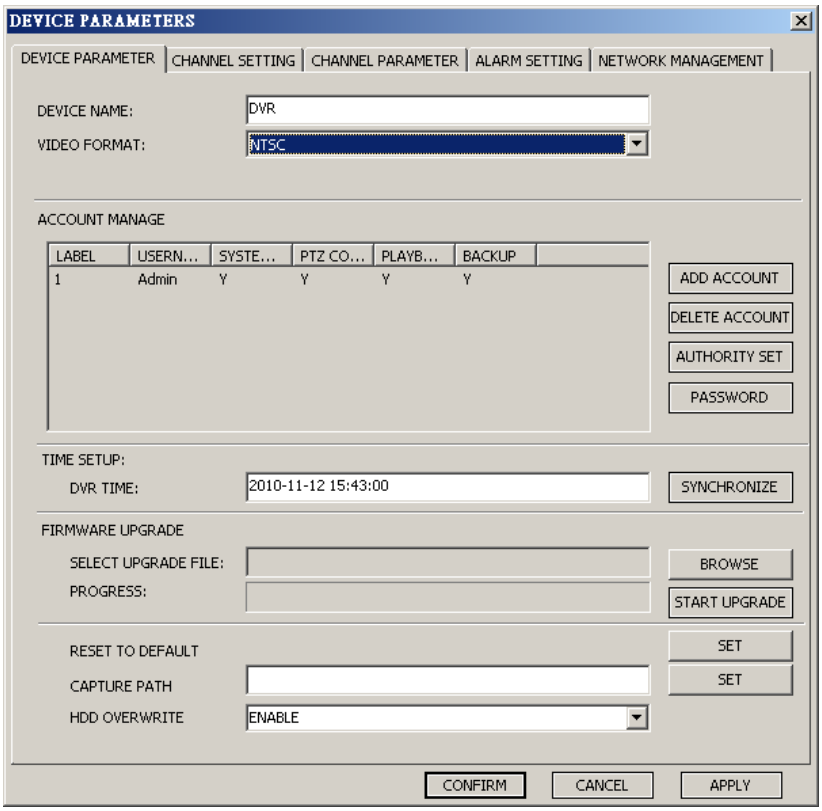
Click follow icon can switch to different multi window mode.



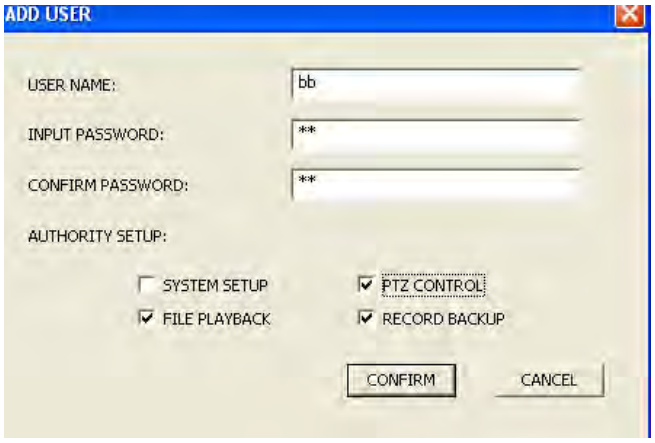

## 5.5 DVR Remote Configure

Click this icon to open DVR setting window.

## 5.5.1 『DEVICE PARAMETER』TAB

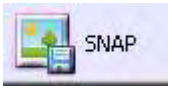



- **DEVICE NAME & VIDEO FORMAT**: give this DVR a name and Video format(NTSC or PAL)
- **ADD ACCOUNT**: Click to create new user account.

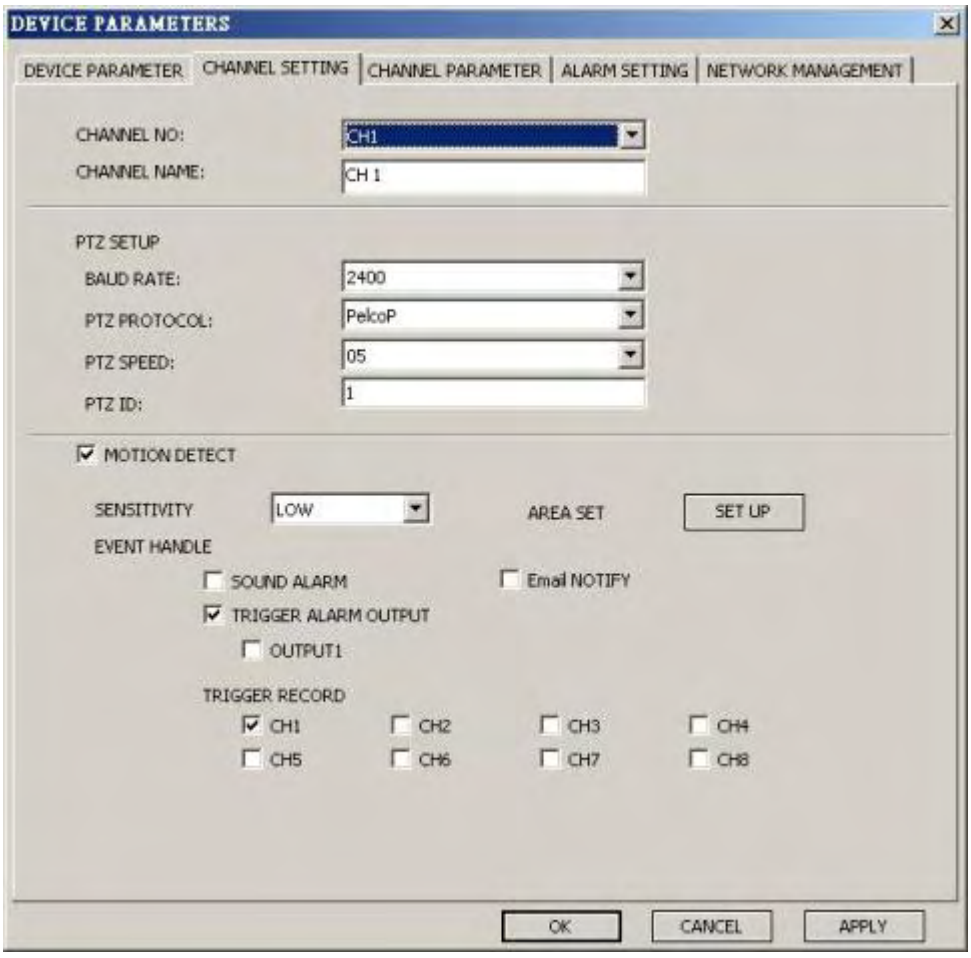



USER NAME: Input new user account name
INPUT PASSWORD: password
CONFIRM PASSWORD: confirm password again
**(Remark: Only user account can modify its own password after create that user account and password by admin)**
AUTHORITY SETUP: Click ☐ icon to enable or disable authority operation of certain user

- **DELETE ACCONT:** Delete curtain user account
- **SYNCHORONIZE**: Synchronize remote DVR system time with local PC time.

- **FIRMWARE UPGRADE:** DVR firmware can upgrade via network. Click "BROWSE" to fine the firmware in PC, click "START UPGRADE" to upload new firmware to remote DVR. PROGRESS will show the upgrade status.
- **RESET TO DEFAULT/HDD OVERWRITE:** same as DVR OSD Set up
- **CAPTURE PATH**: set up the folder to save snap shot 


## 5.5.2 『CHANNEL SETTING』TAB




- **CHANNEL NO:** Click ▼ icon to select channel number to apply setting.
- **CHANNEL NAME:** Input name or description of camera..
- **PTZ SETUP:**
  Baud Rate**:** Click ▼ icon to select PTZ baud rate from 1200 /2400 /4800/9600bps
  Protocol: Click ▼ icon to select PTZ protocol from 『SAMSUNG、PelcoD 、PelcoP、Panasonic』.
  PTZ Speed: Click ▼ icon to select camera speed from 01~16.
  Bigger value mean camera move fast.
  PTZ ID：PTZ camera ID address. Please check ID address from camera.
- **MOTION DETECT:** Click ☐ to enable or disable function.
  ☑ Mean motion detection enabled.
  SENSITIVITY: Click ▼ icon to selects from [Low, Middle, High, and

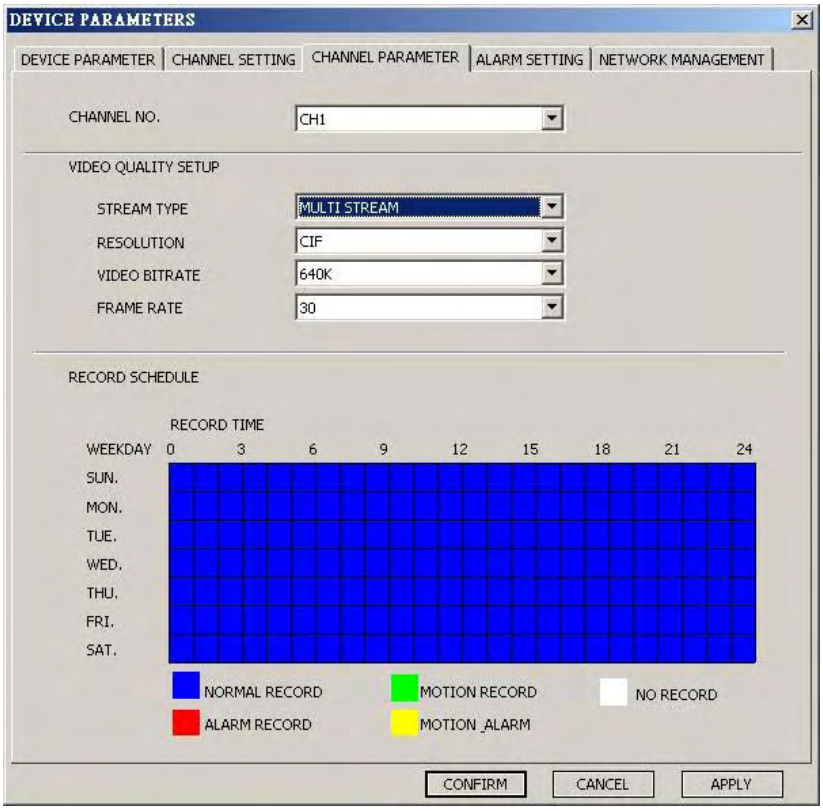
Highest]

AREA SET: Click『Set Up』to open sub window and configure motion area block by block. Left Click to change state, blue color means enable motion detection. Transparent color mean disable.

- **EVENT HANDLE**：
  - TRIGGER RECORD: when curtain channel has motion triggered, DVR can record multiple channels.
  - TRIGGER ALARM OUTPUT: Enable or disable alarm output when motion triggered.
  - SOUND ALARM: Enable buzzer output when motion triggered. Email NOTIFY: Enable or disable email sending when motion triggered

### 5.5.3 『CHANNEL PARAMETER』TAB

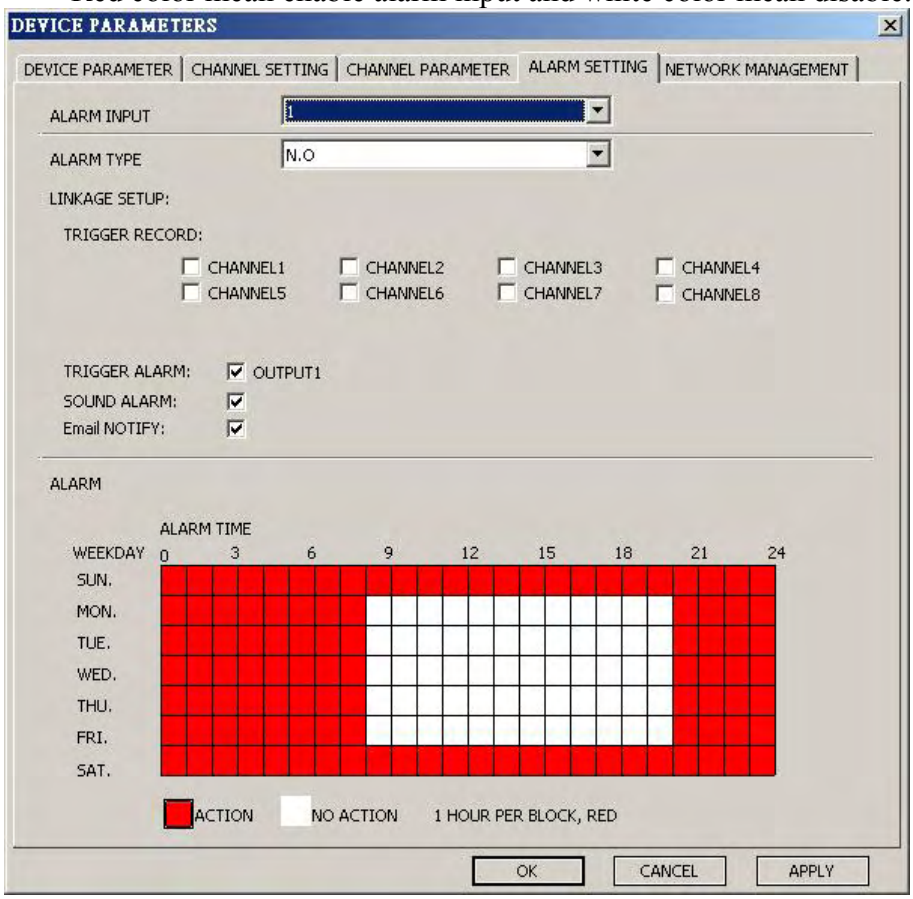
- **CHANNEL NO:** Click ▼ icon to select channel number to apply setting.
- **VIDEO QUALITY SETUP:**
  - STREAM TYPE: Click to select only video steaming or video + audio streaming (MULTI STREAM)
  - RESOLUTION: Click to select CIF /Half D1 /D1.
  - VIDEO BITRATE: Click to select from 8 different bitrate → 256K /384K /512K /640K/768K /1M /1.5M /2M bps。
  - FRAME RATE: Click to select from 6 different frame rate→ 1 /3 /6 /12/25 /30 FPS




  - **RECORD SCHEDULE:**
    Each block represents 『1 Hour』 in a day. Click left mouse to change state in sequence of each block. Drag mouse on curtain block and copy state to other block. Each color's define were described in the window.

## 5.5.4 『ALARM SETTING』 TAB

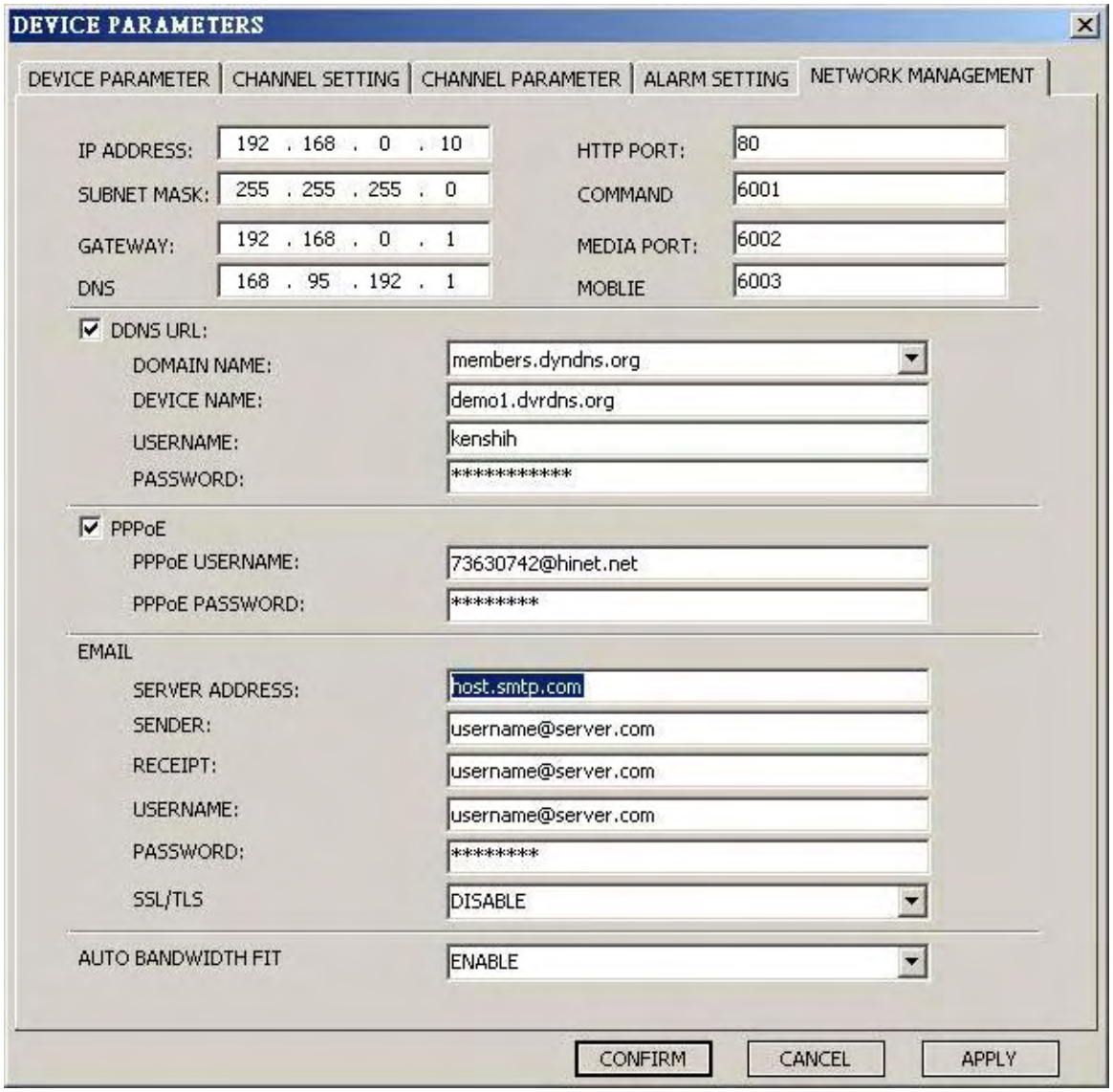
- **ALARM INPUT:** Click ▼ icon to select channel number to apply setting.
- **ALARM TYPE:** Device type (Normal Open or Normal Close)
  TRIGGER RECORD: Click ☐ to enable channel for recording.
  TRIGGER ALARM: Click ☐ to enable alarm relay output.
  SOUND ALARM: Click ☐ to enable alarm buzzer.
  - Email NOTIFY: Click ☐ to enable e-mail notification.
- **ALARM SCHEDULE**
  Each block represents 『1 Hour』 in a day. Click left mouse to change state of each block. Drag mouse on curtain block can copy state to other block. Red color mean enable alarm input and white color mean disable.



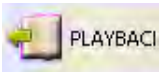

## 5.5.5 『NETWORK MANAGMENT』 TAB

- **IP Address:** Current IP address information
- **Port Number:** Current HTTP/COMMAND/MEDIA/MOBILE port number of network control and data transmission, you may change them
- **DDNS URL:** Click ☐ to enable DDNS function.
  - DOMAIN NAME:
  - DEVICE NAME:
  - USER NAME:
  - PASSWORD

- **E-Mail:** Configure E-mail server IP address , Sender's e-mail address, Receipt's e-mail address and account name and password of e-mail server, you can input multiple Receipts' e-mail address, and separated by space.
- **SSL/TLS:** Support SSL encryption for e-mail sending.
- **AUTO BANDWIDTH FIT:** Enable DVR automatic adjusts video quality lower in order to transmit smooth video while network bandwidth insufficient.



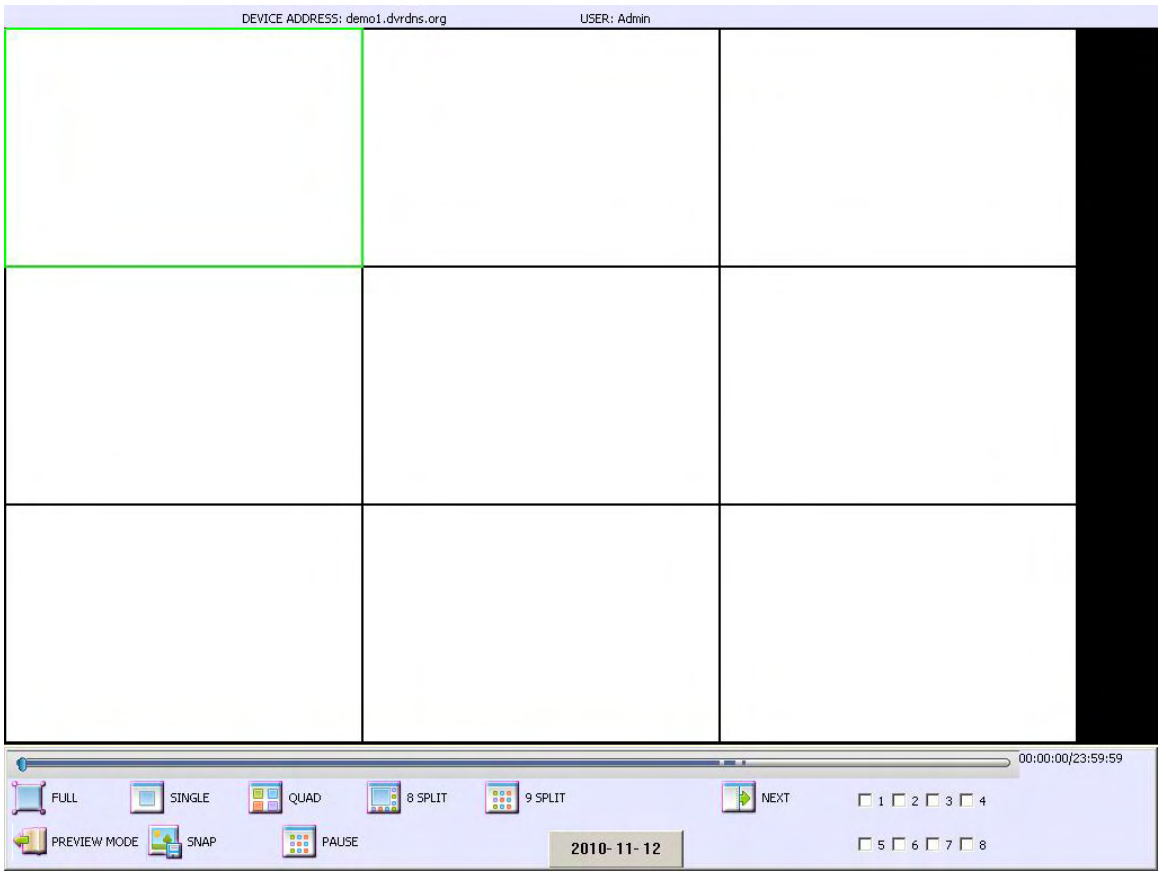
## 5.6 IE Remote Playback



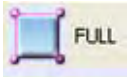
Click PLAYBACK icon to open IE playback window.

### 5.6.1 Playback Window

You may see QUAD/9 SPLIT or 16SPLIT play window according to 4CH/8CH/16CH DVR when get in



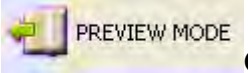

### 5.6.2 Playback Operation

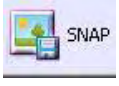
- 

Click this icon to put IE browser window to full screen and click again back to normal screen

*(Remark: when switch to full screen mode, the Toolbar will automatic re-arrange position upon monitor display ration 4:3 or 16:9)*

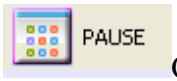
- Click follow icon can switch to different multi window mode.

- 

Click to stop playback and switch live preview model.
- 

Click to capture single picture of playback video, the path can be setup in

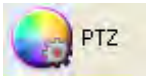
### 5.3.1 『DEVICE PARAMETER』

- 

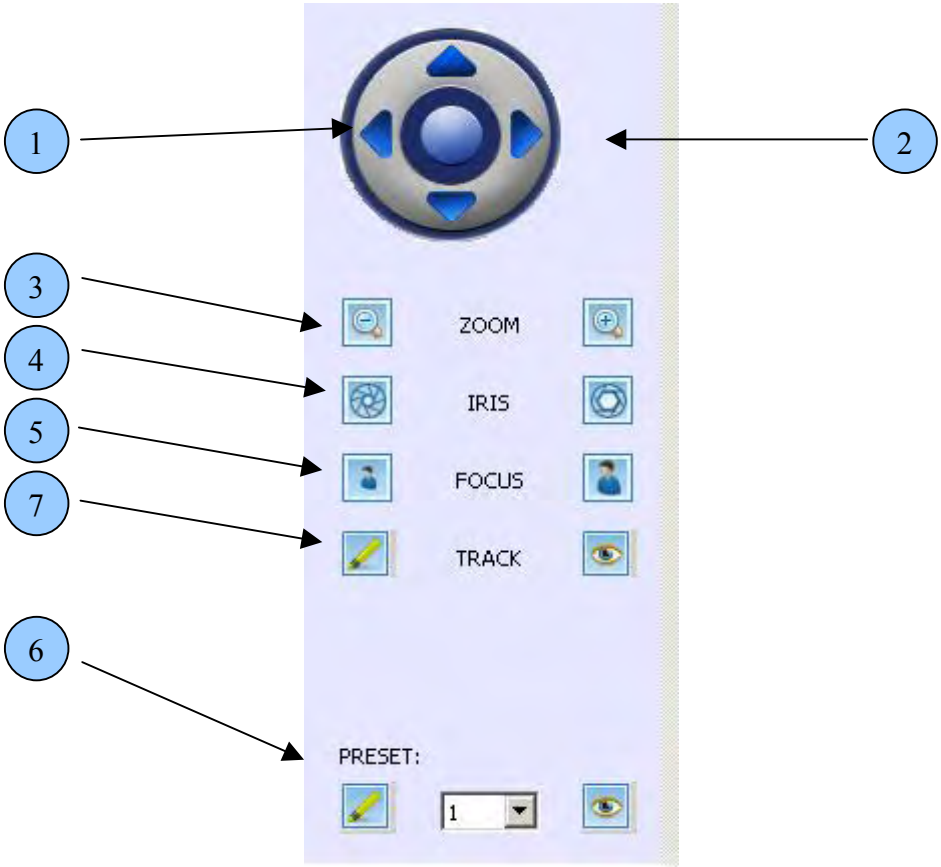
Click to pause playback.
- **Playback by Date:** Click ▼ icon to open calendar and select target date for playback, then click channel list.

- Click to time bar to start playback, the grey area on the time bar indicate recording intervals for playback

## 5.7 PTZ Control

Click 

icon to open PTZ control panel.




- 1 → Control PTZ camera moving direction.
- 2 → Configure PTZ camera moving speed. ( Increase green box to speed up)

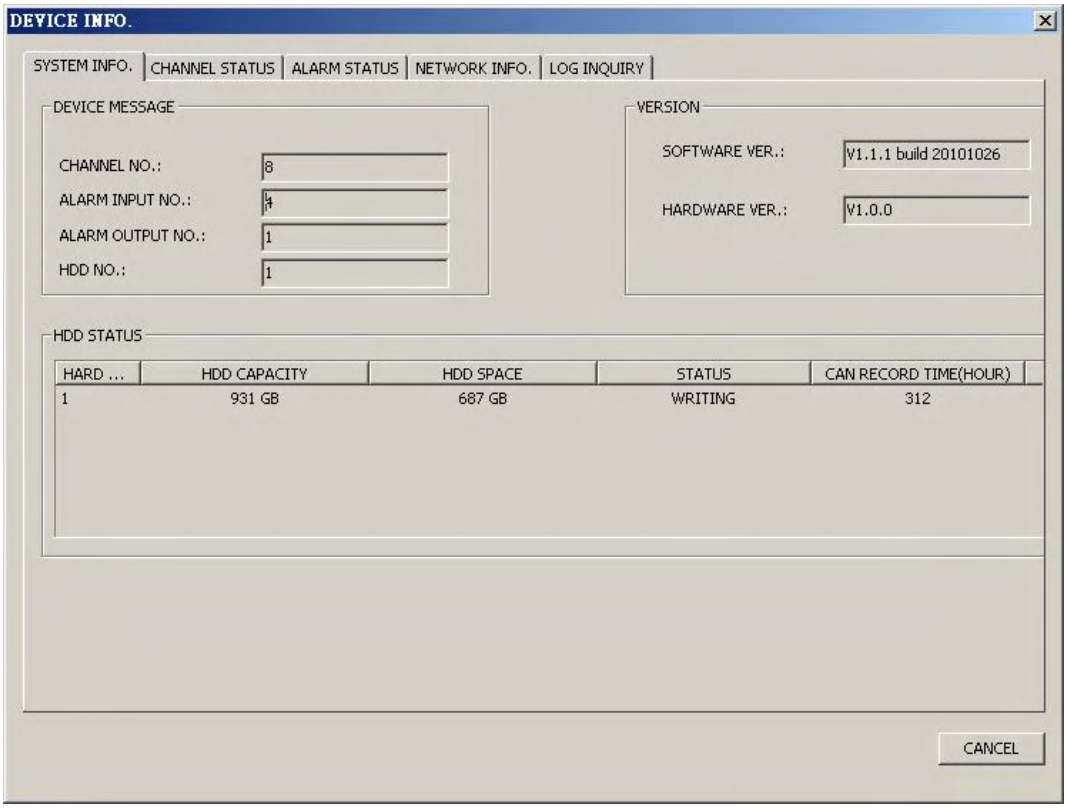
- 3 → Control  PTZ camera Zoom In and Zoom Out
- 4 → Adjust PTZ camera IRIS
- 5 → Adjust PTZ camera FOCUS (Video Clarity)
- 6 → Configure 1~128 number of Preset point. Click save and to call.
- 7 → Click open TRACK setting window. Click to call.

## 5.8 DEVICE INFOMATION

Click

to open DEVICE INFO window.

### 5.8.1 『SYSTEM INFO.』TAB

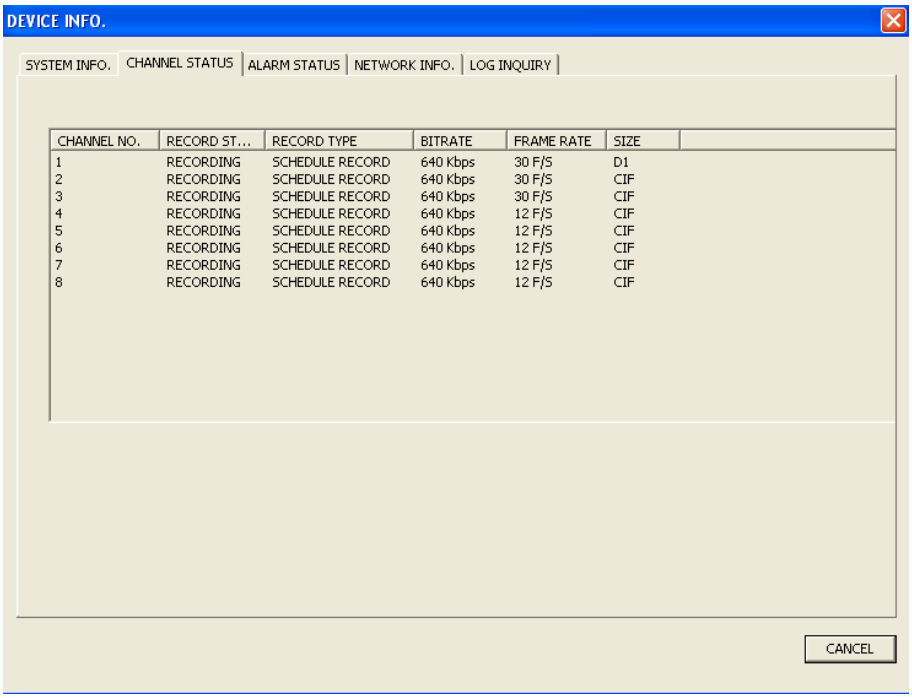



- **DEVICE MESSAGE:**
  it display channel number, alarm input number, and alarm output number and HDD number of remote DVR.
- **VERSION:**
  it displays firmware and hardware version information of remote DVR.
- **HDD STATUS：**
  A. HDD CAPACITY: HDD total space.
  B. HDD SPACE: HDD remain free space.
  C. STATUS: Current HDD action
  D. CAN RECORD TIME: Estimate record hours of free space.

### 5.8.2 『CHANNEL STATUS』TAB

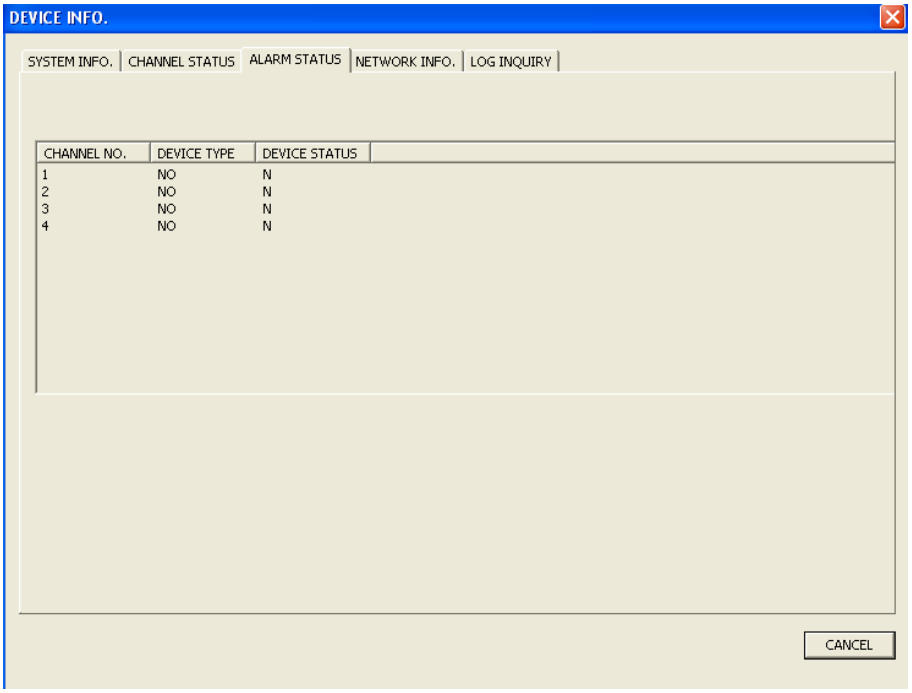
- **CHANNEL NO:** 1~4 or 1~8.
- **RECORD STATUS:** Current channel status.
- **RECORD TYPE:** Normal, Schedule, Motion or Alarm record.

- **BITRATE**：Current record bitrate.
- **FRAME RATE**：Current record frame rate
- **SIZE:** Current record resolution. D1 / Half D1 / CIF


DEVICE INFO.
SYSTEM INFO.
CHANNEL STATUS
ALARM STATUS
NETWORK INFO.
LOG INQUIRY
CHANNEL NO. | RECORD ST... | RECORD TYPE | BITRATE | FRAME RATE | SIZE
1 | RECORDING | SCHEDULE RECORD | 640 Kbps | 30 F/S | D1
2 | RECORDING | SCHEDULE RECORD | 640 Kbps | 30 F/S | CIF
3 | RECORDING | SCHEDULE RECORD | 640 Kbps | 30 F/S | CIF
4 | RECORDING | SCHEDULE RECORD | 640 Kbps | 12 F/S | CIF
5 | RECORDING | SCHEDULE RECORD | 640 Kbps | 12 F/S | CIF
6 | RECORDING | SCHEDULE RECORD | 640 Kbps | 12 F/S | CIF
7 | RECORDING | SCHEDULE RECORD | 640 Kbps | 12 F/S | CIF
8 | RECORDING | SCHEDULE RECORD | 640 Kbps | 12 F/S | CIF
CANCEL

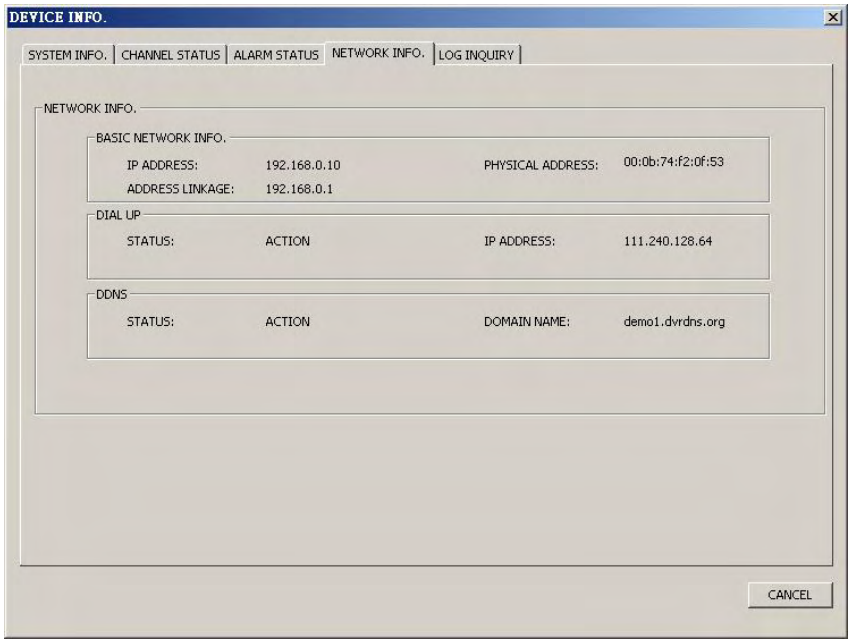
## 5.8.3 『ALARM STATUS』TAB

- **CHANNEL NO:** 1~4 or 1~8.
- **DEVICE TYPE:** Alarm device type, Normal Open or Normal Close.
- **DEVICE STATUS:** Alarm device in trigger model or not.



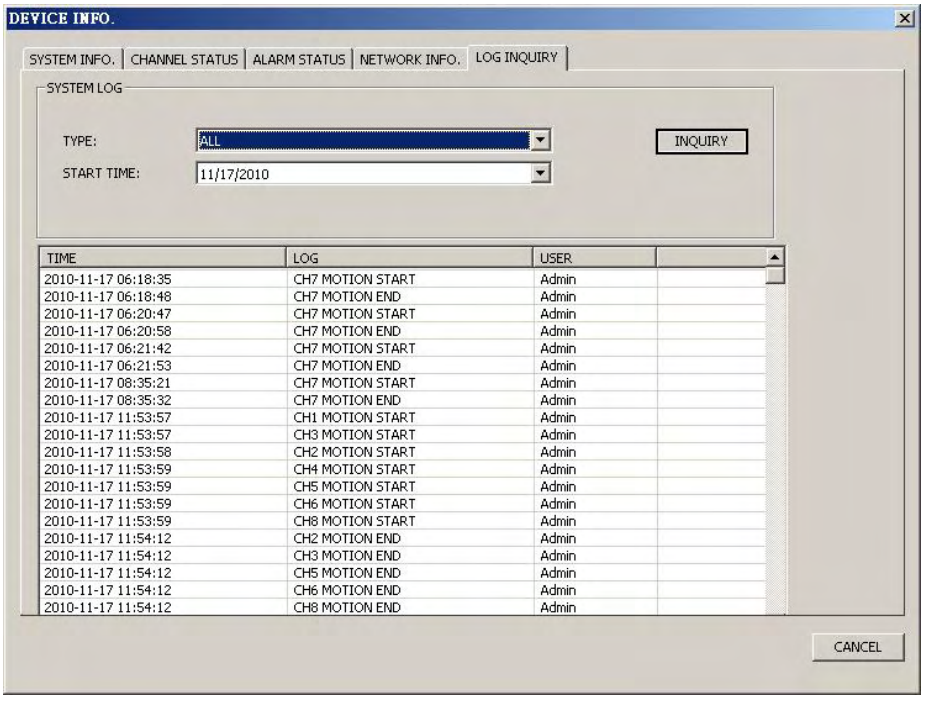
## 5.8.4 『NETWORK INFO.』TAB

- **NETWORK INFO.**
  Current IP address , MAC address and gateway IP address.
- **DIAL UP:**
  If DVR use PPPoE Dial up connection then it will show “ACTION” and display current IP address that assigned by network service provider.
- **DDNS:**
  If DVR enable DDNS client then if will display “ACTION” and display current domain name.

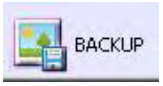



## 5.8.5 『LOG INQUIRY』TAB

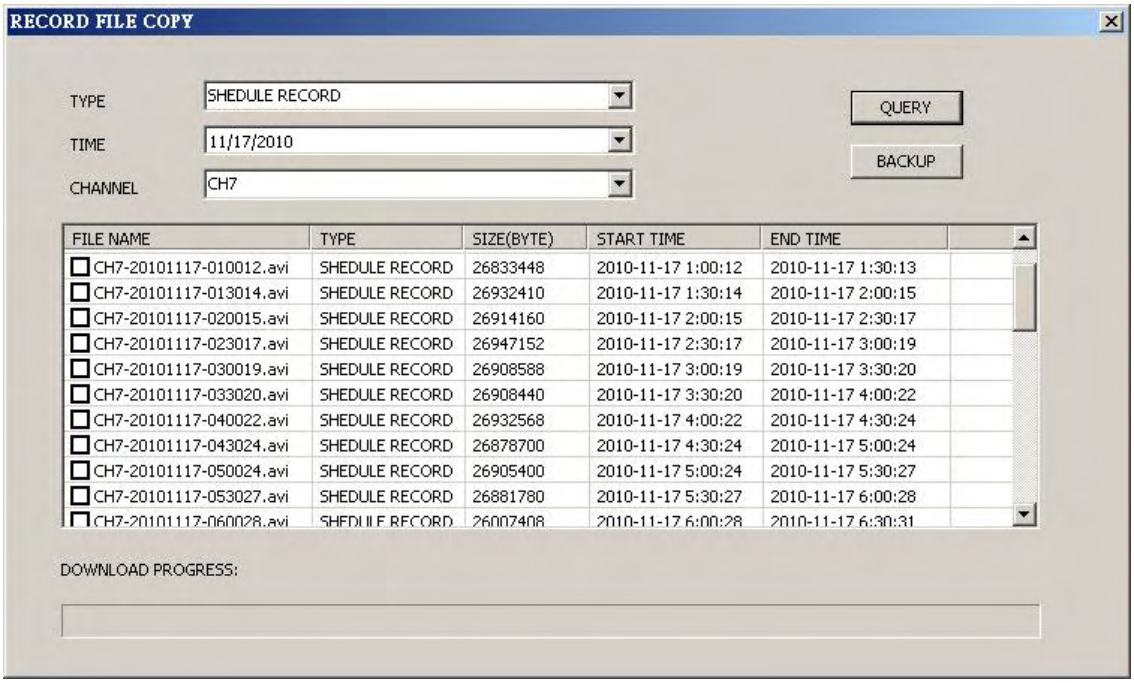
Query remote DVR event by type(All/Operation/Abnormal/Event) and target date.


DEVICE INFO.
SYSTEM INFO.
CHANNEL STATUS
ALARM STATUS
NETWORK INFO.
LOG INQUIRY
SYSTEM LOG
TYPE: ALL
START TIME: 11/17/2010
INQUIRY
TIME LOG USER
2010-11-17 06:18:35 CH7 MOTION START Admin
2010-11-17 06:18:48 CH7 MOTION END Admin
2010-11-17 06:20:47 CH7 MOTION START Admin
2010-11-17 06:20:58 CH7 MOTION END Admin
2010-11-17 06:21:42 CH7 MOTION START Admin
2010-11-17 06:21:53 CH7 MOTION END Admin
2010-11-17 08:35:21 CH7 MOTION START Admin
2010-11-17 08:35:32 CH7 MOTION END Admin
2010-11-17 11:53:57 CH1 MOTION START Admin
2010-11-17 11:53:57 CH3 MOTION START Admin
2010-11-17 11:53:58 CH2 MOTION START Admin
2010-11-17 11:53:59 CH4 MOTION START Admin
2010-11-17 11:53:59 CH5 MOTION START Admin
2010-11-17 11:53:59 CH6 MOTION START Admin
2010-11-17 11:53:59 CH8 MOTION START Admin
2010-11-17 11:54:12 CH2 MOTION END Admin
2010-11-17 11:54:12 CH3 MOTION END Admin
2010-11-17 11:54:12 CH5 MOTION END Admin
2010-11-17 11:54:12 CH6 MOTION END Admin
2010-11-17 11:54:12 CH8 MOTION END Admin
CANCEL

## 5.9 BACKUP

Click 

to open BACKUP window as below:




Select the『TIME』, 『CHANNEL』, 『Type』(All, Schedule, Motion, and Alarm), click 『QUERY』 to find the necessary files, to be listed in the window, click the ☐ to choose the files and 『BACKUP』 to start.

The backup format is only with AVI head, can be played in any players like WMP, VLC and Quick time with H264 codec, which can be download from below link:

http://kmplayer.kde.org/, http://codecguide.com/, http://mpc-hc.sourceforge.net/

# 6 Mobile Phone Surveillance

Another state-of-the-art feature of this DVR device is transmitting live feed from the CCTV cameras to your mobile phone, so that you can have an 'on the go' access to your surveillance system from virtually anywhere in the world. Currently this feature is supported only for phones with the Windows Mobile, Nokia Symbian S60 3rd/ and 5th Edition OS, Google Android, Black Berry OS 4.x and Apple iPhone/iPad.

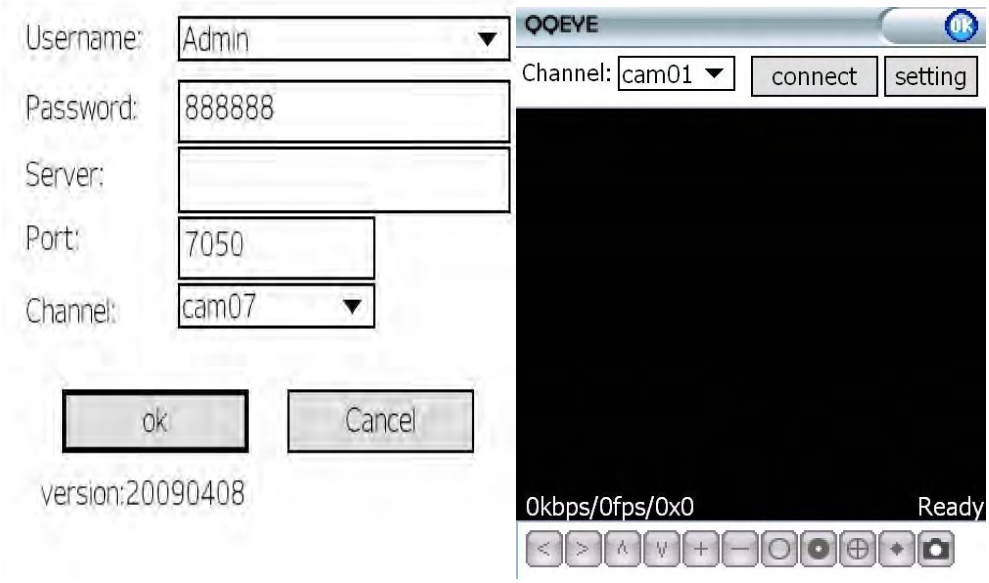
Before connect DVR via mobile, please enable the DVR 『**Bandwidth auto-fit**』 of **Chapter 4.6.3 『Advance Setting』 in the 『NETWORK Tab』**, DVR must be internet connected(Chapter 4 『NETWORK Tab』), and set up the mobile port(Chapter 4.6.2 **『Port Setting』**), default is 6003)

**Note: Prior to using this feature, you should apply for the Internet connection service for your mobile phone, such as 3G or 3.5G. Please contact your mobile service provider for details.**

You can only watch one live feed channel at a time with your mobile phone. Split mode and playback of recorded files is not available at the moment.

## 6.1 Windows Mobile

From the installation CD, install file "*xxx.cab*" onto your Windows Mobile phone. See your phone user manual for more details on application install.
Find and execute program QQEYE and click the **Setting** button to setup the IP address for your DVR.




In the ensuing screen, input the user name (Admin), password, and IP address(or DDNS)

of your DVR (Server); input the value for the Port: default 6003 and choose the channel for streaming data from the dropdown menu.

Click OK to save the settings.

The main window of the Mobile Phone application offers the choice of channels, **Connect** and **Settings** buttons.

To connect to the system and start watching the live feed from your CCTV cameras, click on the **Connect** button.

To choose the camera, use the **Channel** dropdown menu.

To modify settings, press the **Setting** button.

On-screen data will provide information about current time (in the YYYY-MM-DD HH:MM:SS format), Channel number, bit rate (Kbps), frame rate (fps), resolution, and status of the camera.

The menu bar contains the following controls.

Directional buttons for controlling the direction of the PTZ camera view

Zoom in / out

Iris

Focus

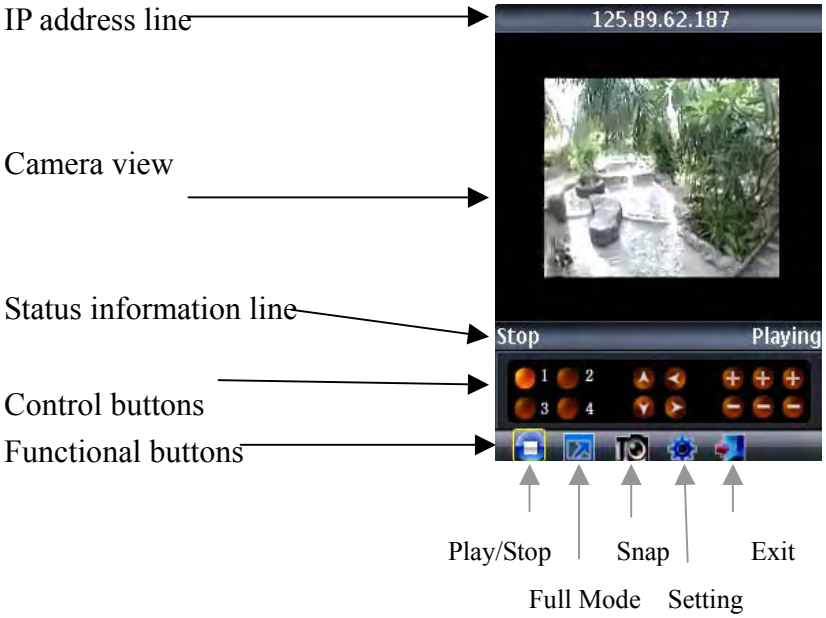
Snapshot

## 6.2 Nokia/LG/Samsung Symbian S60 3rd and 5th Mobile

Open accessory CD and find the "**QQeye_3rd_240x320.sisx**", or "**QQeye_3rd_320x240.sisx**" and "**QQeye_5th.sisx**" mobile surveillance software according to Symbian OS S60 3rd (Depends upon resolution) or 5th. Please refer to user manual of mobile phone to install the software into mobile phone.
**While install the software, must set "software installation -ALL", and "Online Certificate check - off", ex. Main menu --> Applications --> App. mgr. (application management) --> Options --> settings --> software installation ,set ALL --> Online Certificate check , set off**

After installation is complete, please locate the QQEye icon in the list of applications on your mobile phone.

Execute QQEye and the program window will appear on the screen.




In order to navigate between the buttons, please use the directional keys of your Symbian mobile phone.

**Explanation of the menu buttons and program interface:**

**Status information line.** The first status tag indicates the name for the selected functional button in the below control bar (in the illustration, it is "***Stop***"). The second tag word denotes the current status of the program (in the illustration, it is "***Playing***").

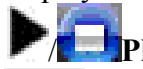
**Control buttons:**

Selection of channels. If your system supports 8 or 16 channels, to switch between channel buttons 1-4, 5-8, 9-12, and 13 -16, please use functional button (see below)

PTZ camera direction controls PTZ camera Zoom, Focus and Iris controls

**Functional buttons:**

When highlighting these buttons, the name of the corresponding function will be displayed in the status information line (the first tag name).

 **Play** / **Stop** button

**Full Mode**. Displays the camera feed in the full-screen mode. All menus and

buttons will be hidden.

**Snap**. Allows you to take a snapshot of the camera view.

**Setting**. Brings up the connectivity setup screen.

**Next Group**. Toggling between other available 4-channel views: 1-4 and 5-8 or 9-12, 13-16

**Exit** QQEye

In order to start working with the CCTV feed on your Symbian mobile phone, you will have to configure the program by entering the preferred network access point, IP address(or DDNS) of the DVR, mobile phone port, username, and password.

Click the icon to enter the setup window.

In the **Setting** screen, enter the following data:

Default Access Point: Network through which you connect to the internet. The options are: “None”, “WAP over GPRS”, and mobile service providers operating in your country. If you choose “None”, then after pressing the ▶ button you will be offered a list of available networks to choose from.

Server Address: DVR IP address or DDNS

Server Port: Mobile Port [6003 by default]

UserName: Login User Name〖Admin〗

Pass Word: Password [888888 by default]

Save and return to the main window by pressing Done, press Cancel to discard the changes.

Press the ▶ button to connect to the DVR. After your device successfully logs in to the DVR, you can watch the remote video feed on your Symbian mobile phone.

## 6.3 List of Symbian Supported Mobile Phones

Please review the list of Symbian mobile phones tested for compatibility with the remote access to DVR.

| | | |
|---|---|---|
| LG-KT610 | S60 3rd_FP1 | 10-Feb-08 |
| LG KS10 | S60 3rd_FP1 | 09-Oct-06 |
| LG-KT615 | S60 3rd_FP1 | 30-Oct-08 |
| Nokia 3250 | S60 3rd_INIT | 13-Sep-05 |
| Nokia 5320 XpressMusic | S60 3rd_FP2 | 22-Apr-08 |
| Nokia 5500 Sport | S60 3rd_INIT | 09-May-06 |
| Nokia 5630 XpressMusic | S60 3rd_FP2 | 10-Feb-09 |
| Nokia 5700 | S60 3rd_FP1 | 29-Mar-07 |
| Nokia 5730 XpressMusic | S60 3rd_FP2 | 11-Mar-09 |
| Nokia 6110 Navigator | S60 3rd_FP1 | 08-Feb-07 |
| Nokia 6120 | S60 3rd_FP1 | 17-Apr-07 |
| Nokia 6121 | S60 3rd_FP1 | 18-Jun-07 |
| Nokia 6210 Navigator | S60 3rd_FP2 | 11-Feb-08 |
| Nokia 6220 | S60 3rd_FP2 | 11-Feb-08 |
| Nokia 6290 | S60 3rd_FP1 | 28-Nov-06 |
| Nokia 6710 Navigator | S60 3rd_FP2 | 16-Feb-09 |
| Nokia 6720 Classic | S60 3rd_FP2 | 16-Feb-09 |
| Nokia E51 | S60 3rd_FP1 | 18-Sep-07 |
| Nokia E55 | S60 3rd_FP2 | 16-Feb-09 |
| Nokia E60 | S60 3rd_INIT | 09-Oct-05 |
| Nokia E61 | S60 3rd_INIT | 09-Oct-05 |
| Nokia E61i | S60 3rd_INIT | 10-Feb-07 |
| Nokia E62 | S60 3rd_INIT | 09-Sep-06 |
| Nokia E63 | S60 3rd_FP1 | 12-Nov-08 |
| Nokia E65 | S60 3rd_INIT | 09-Feb-07 |
| Nokia E66 | S60 3rd_FP1 | 16-Jun-08 |
| Nokia E70 | S60 3rd_INIT | 09-Oct-05 |
| Nokia E71 | S60 3rd_FP1 | 16-Jun-08 |
| Nokia E75 | S60 3rd_FP2 | 16-Feb-09 |
| Nokia E90 | S60 3rd_FP1 | 11-Feb-07 |
| Nokia N71 | S60 3rd_INIT | 09-Nov-05 |
| Nokia N73 | S60 3rd_INIT | 09-Apr-06 |

| | | |
|---|---|---|
| Nokia N75 | S60 3rd_INIT | 27-Sep-06 |
| Nokia N76 | S60 3rd_FP1 | 08-Jan-07 |
| Nokia N77 | S60 3rd_INIT | 12-Feb-07 |
| Nokia N78 | S60 3rd_FP2 | 11-Feb-08 |
| Nokia N79 | S60 3rd_FP2 | 21-Aug-08 |
| Nokia N80 | S60 3rd_INIT | 09-Nov-05 |
| Nokia N81 | S60 3rd_FP1 | 29-Aug-07 |
| Nokia N81 8GB | S60 3rd_FP1 | 29-Aug-07 |
| Nokia N82 | S60 3rd_FP1 | 14-Nov-07 |
| Nokia N85 | S60 3rd_FP2 | 21-Aug-08 |
| Nokia N86 8MP | S60 3rd_FP2 | 17-Feb-09 |
| Nokia N91 | S60 3rd_INIT | 14-Apr-05 |
| Nokia N92 | S60 3rd_INIT | 09-Nov-05 |
| Nokia N93 | S60 3rd_INIT | 09-Apr-06 |
| Nokia N93i | S60 3rd_INIT | 08-Jan-07 |
| Nokia N95 | S60 3rd_FP1 | 26-Sep-06 |
| Nokia N95 8GB | S60 3rd_FP1 | 29-Aug-07 |
| Nokia N96 | S60 3rd_FP2 | 11-Feb-08 |
| Samsung I7110 | S60 3rd_FP2 | 20-Oct-08 |
| Samsung INNOV8 | S60 3rd_FP2 | 25-Jul-08 |
| Samsung SGH-G810 | S60 3rd_FP1 | 11-Feb-08 |
| Samsung SGH-i400 | S60 3rd_FP1 | 26-Apr-07 |
| Samsung SGH-i450 | S60 3rd_FP1 | 14-Oct-07 |
| Samsung SGH-i520 | S60 3rd_FP1 | 09-Oct-06 |
| Samsung SGH-i550 | S60 3rd_FP1 | 15-Oct-07 |
| Samsung SGH-i560 | S60 3rd_FP1 | 16-Oct-07 |
| Samsung SGH-L870 | S60 3rd_FP2 | 28-May-08 |

**Symbian OS S60 5th Mobile Phone – Nokia 5800XM, N97, 5230, 5802XM, 5530XM and x6**

## 6.4 Apple iPhone and iPad

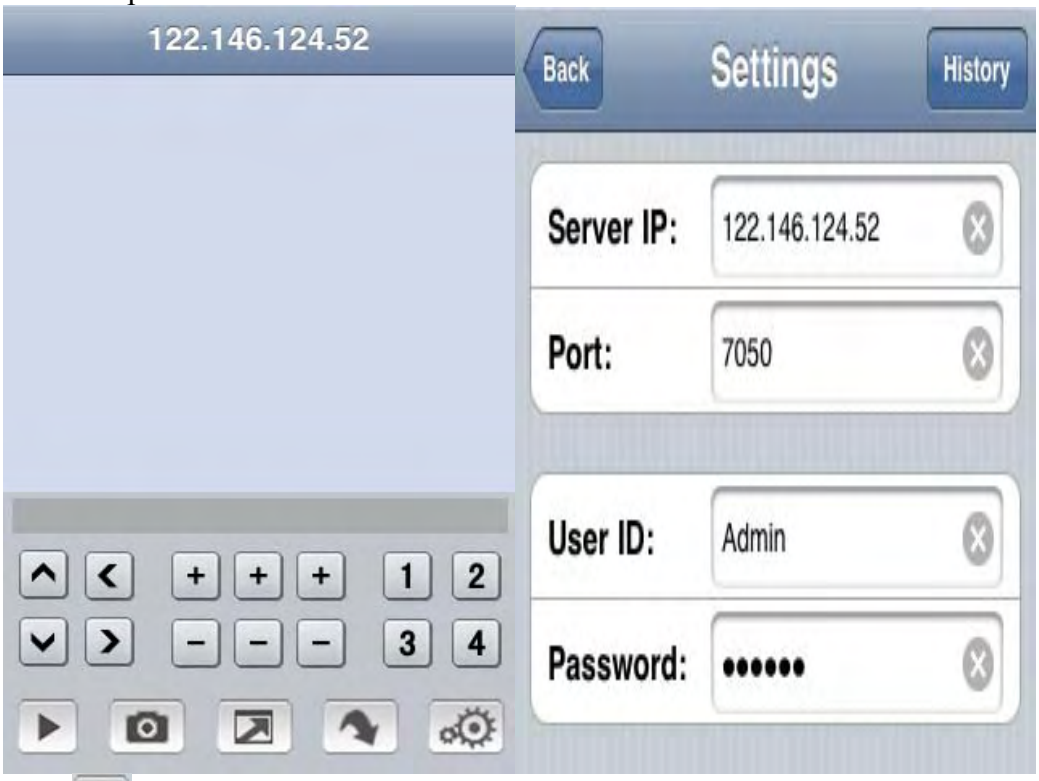
Please use 2nd generation iPhone or iPad , this Apple application, like all iPhone/iPad application, needs to be downloaded directly from the iPhone/iPad AppStore.

1) Open Apple iTunes
2) Search for “aplayer” from our third party supplier. It will be a free application.
3) Download and install onto iPhone as per iPhone installation procedures.

4) Please locate the icon and click on it to open the application.
5) You will see following screen.

6) To set up the connection to the DVR, please first click icon to enter settings menu as below right screenshot:

Server IP: DVR IP address or DDNS
Port: Mobile Port [6003 by default]
User ID: Login User Name〖Admin〗by default
Password: Password [888888 by default]
Save and press **Back** to main windows




Click icon to connect DVR immediately, after login DVR successfully, user can watch the remote video from mobile phone; the other icons function are as follows:

switch channel，click show another 4 channel list

Control PTZ camera direction, Zoom, Focus, Iris.

Picture Snapshot.

Full Screen

## 6.5 Blackberry Mobile

### 1) Program installation

1. Copy the setup software “QQEye.cod” and “QQEye.alx” to your PC.
2. In order to be able to install applications and themes via BlackBerry Desktop Manager, firstly the PC should install Blackberry Desktop Manager. BlackBerry Desktop Manager will be known as “DM.”

; otherwise the phone cannot establish the connection with the PC.
3. Connect your BlackBerry mobile phone to your computer via the USB cable that came with it, or any USB cable that fits. Start the DM.
4. Before the installation, open the BlackBerry Desktop Manager. Shown as the red sign on the following pictures, Fig1 means the phone isn’t connected to the PC, Fig2 means the phone has been connected to the PC.

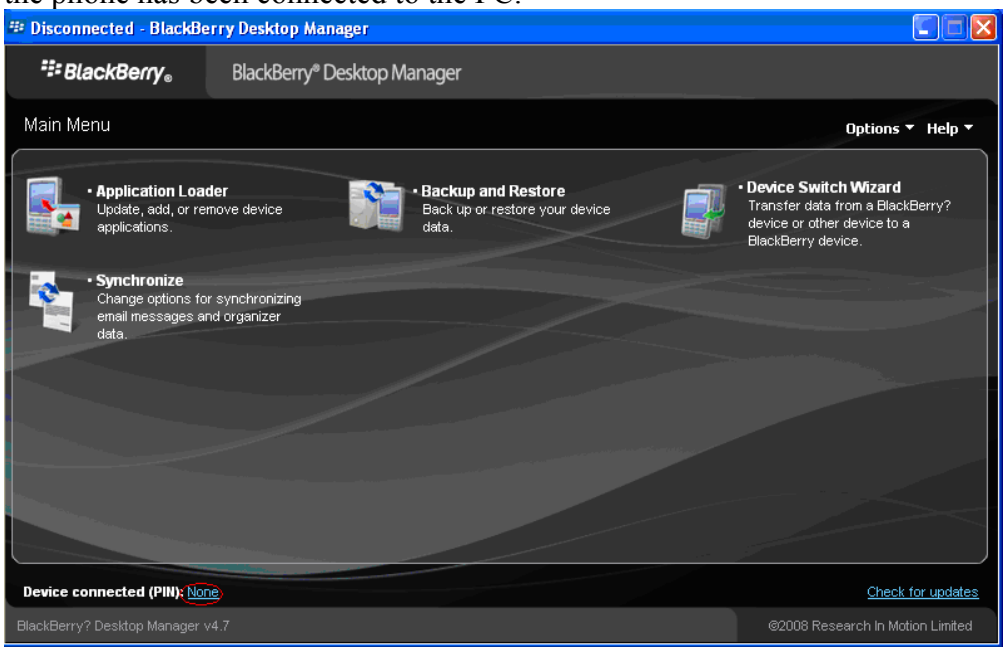

Disconnected - BlackBerry Desktop Manager
BlackBerry
BlackBerry® Desktop Manager
Main Menu
Options
Help
• Application Loader
Update, add, or remove device applications.
• Backup and Restore
Back up or restore your device data.
• Device Switch Wizard
Transfer data from a BlackBerry? device or other device to a BlackBerry device.
• Synchronize
Change options for synchronizing email messages and organizer data.
Device connected (PIN): None
Check for updates
BlackBerry? Desktop Manager v4.7
©2008 Research In Motion Limited

**Fig1**

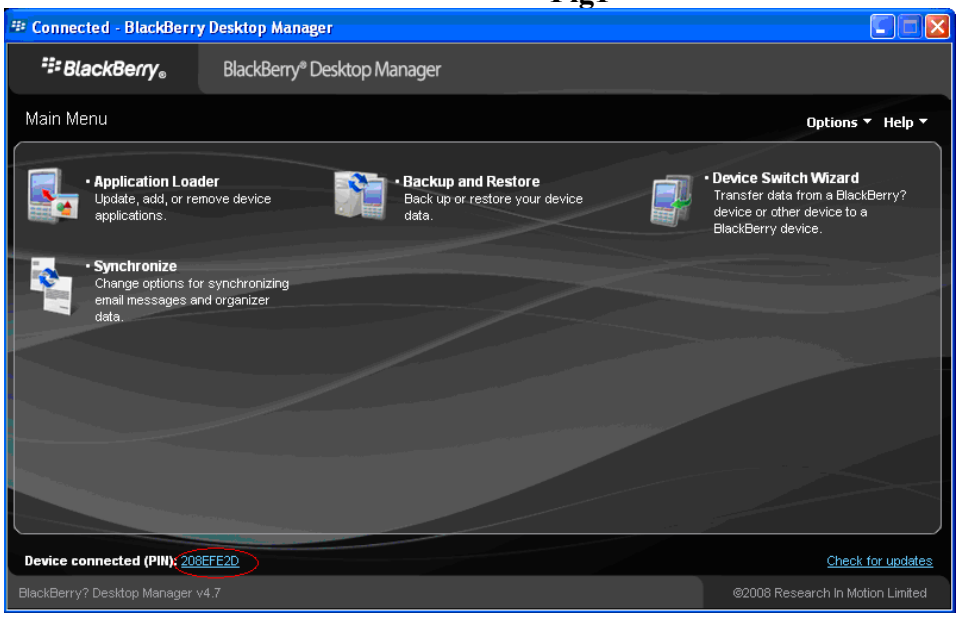
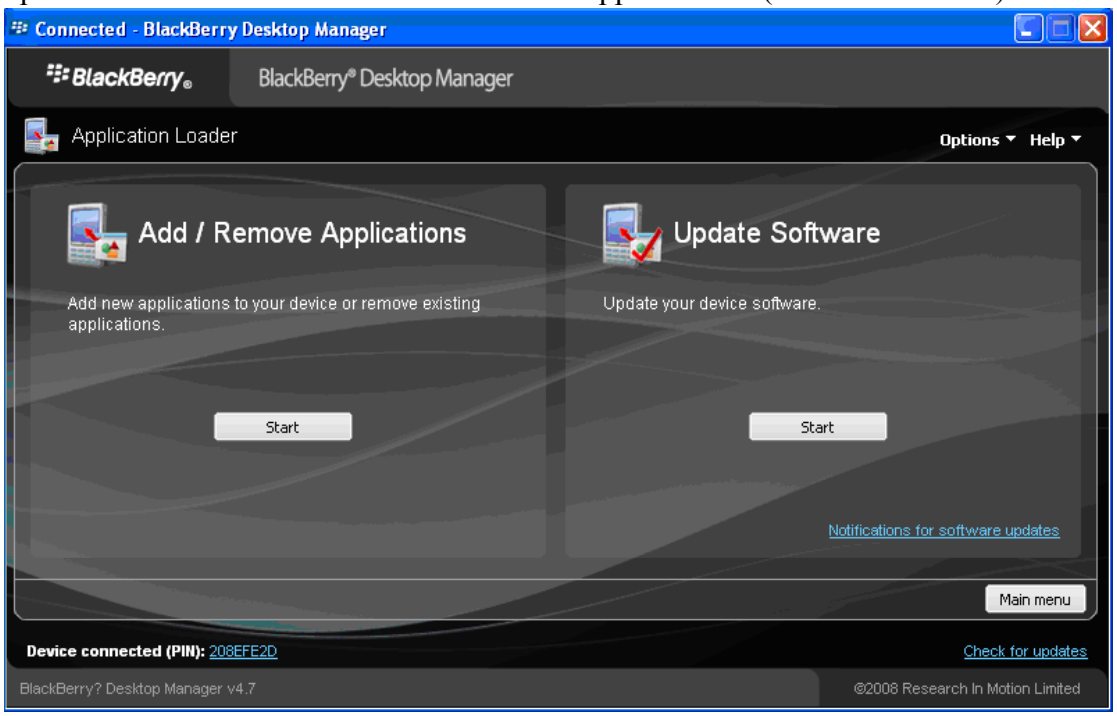
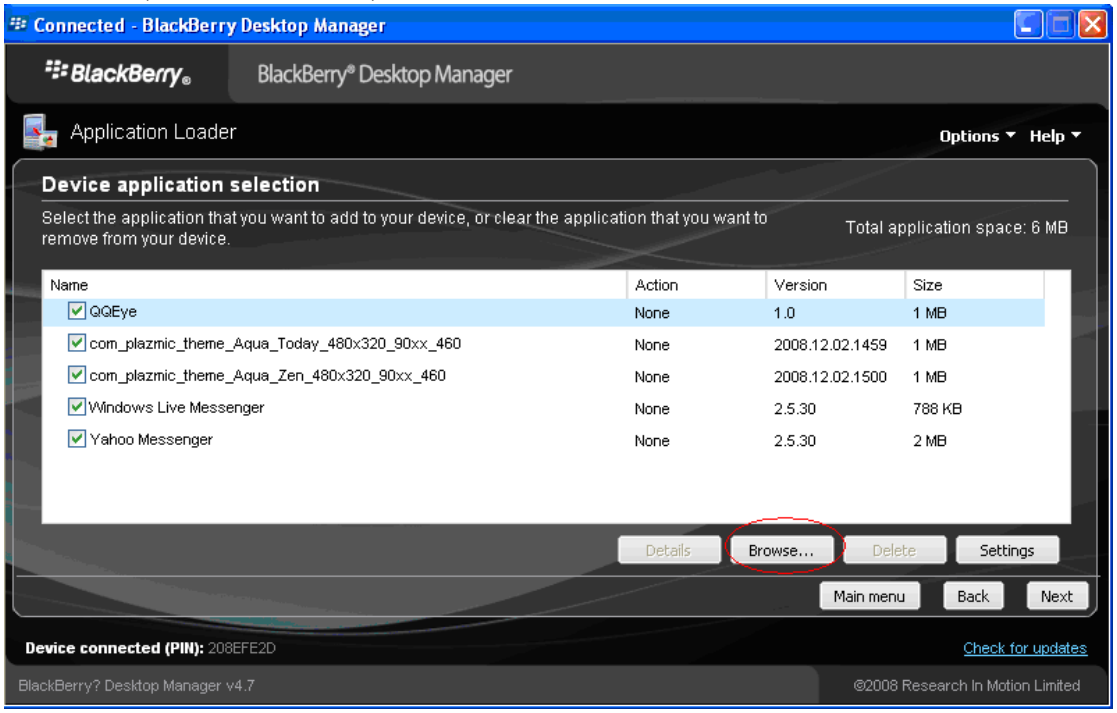

Connected - BlackBerry Desktop Manager
BlackBerry
BlackBerry® Desktop Manager
Main Menu
Options
Help
• Application Loader
Update, add, or remove device applications.
• Backup and Restore
Back up or restore your device data.
• Device Switch Wizard
Transfer data from a BlackBerry? device or other device to a BlackBerry device.
• Synchronize
Change options for synchronizing email messages and organizer data.
Device connected (PIN): 208EFE2D
Check for updates
BlackBerry? Desktop Manager v4.7
©2008 Research In Motion Limited

**Fig2**

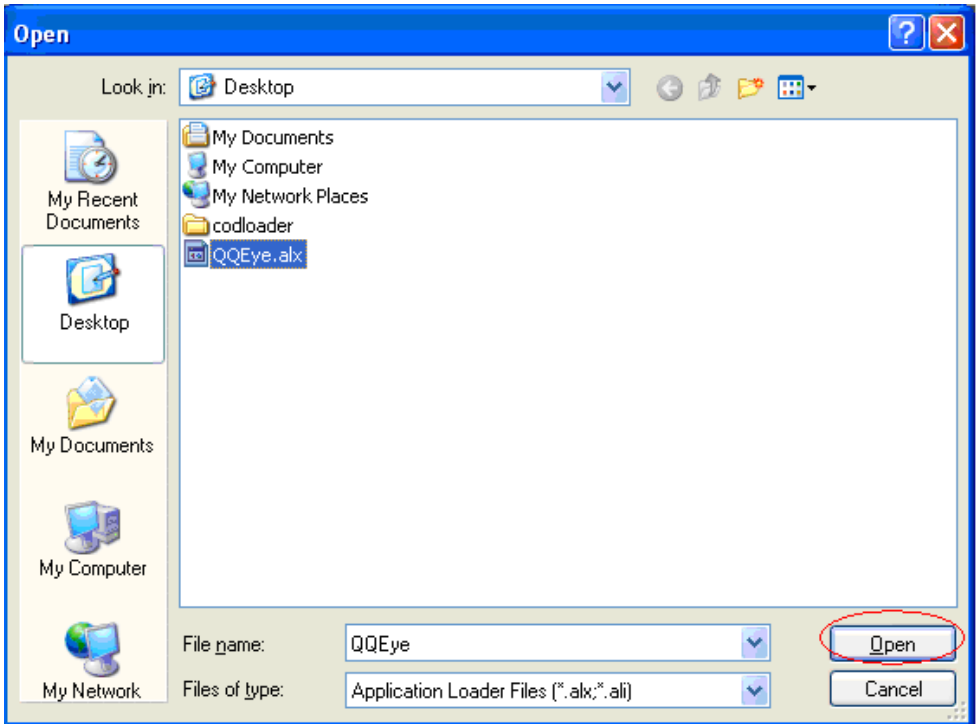
5. Click on “Application Loader” to enter into its interface. In this screen you have two options to select from. Select “Add/Remove Applications” (shown as follows).



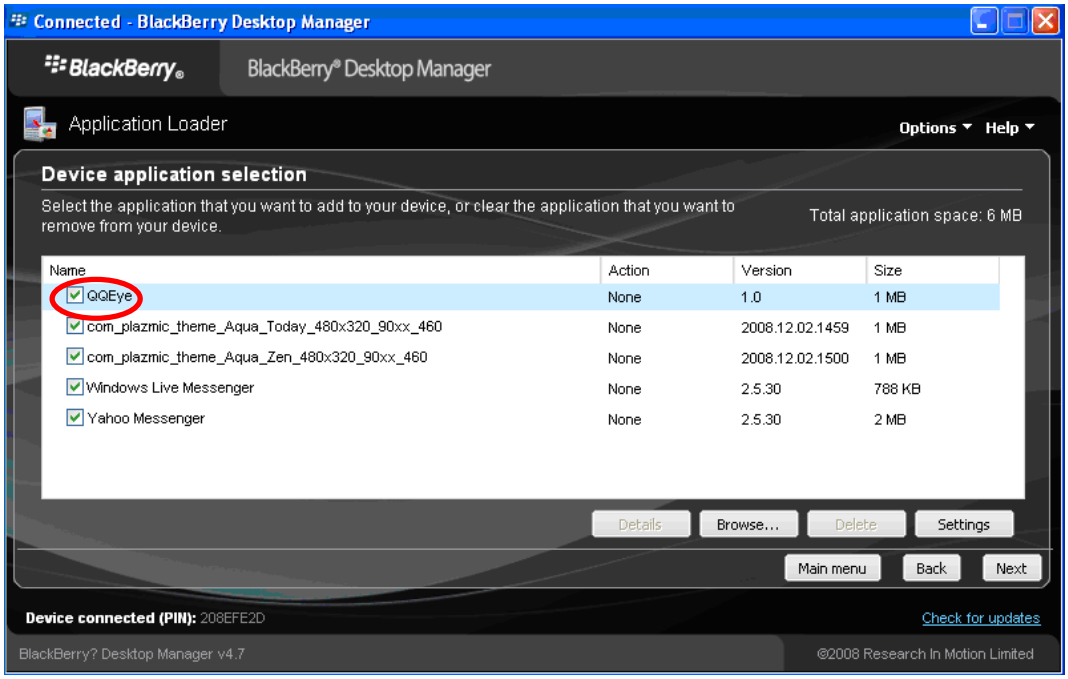

6. You should now see something like what you see below. From this screen, click “Browse” (shown as follows).



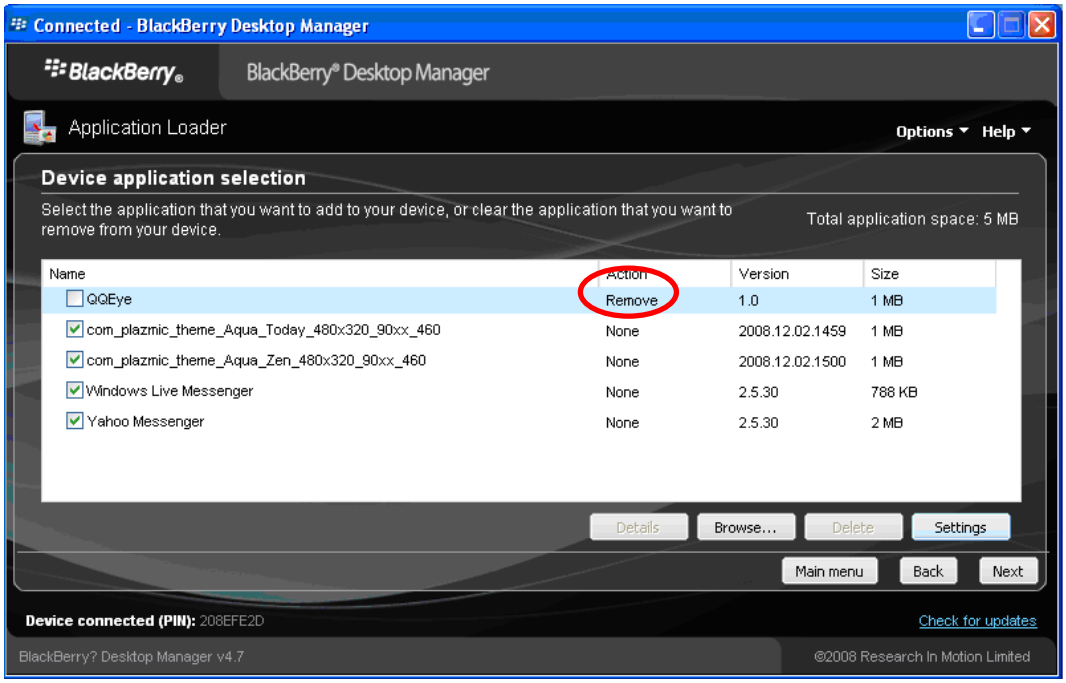

7. Once you click “Browse” you will see a file search screen like the one below. Go to and locate where you saved the application files. Make sure you saved both the “.alx” file and “.cod” file in the same folder. After finding the “QQEye.alx” file for the application, highlight it and click “open”.



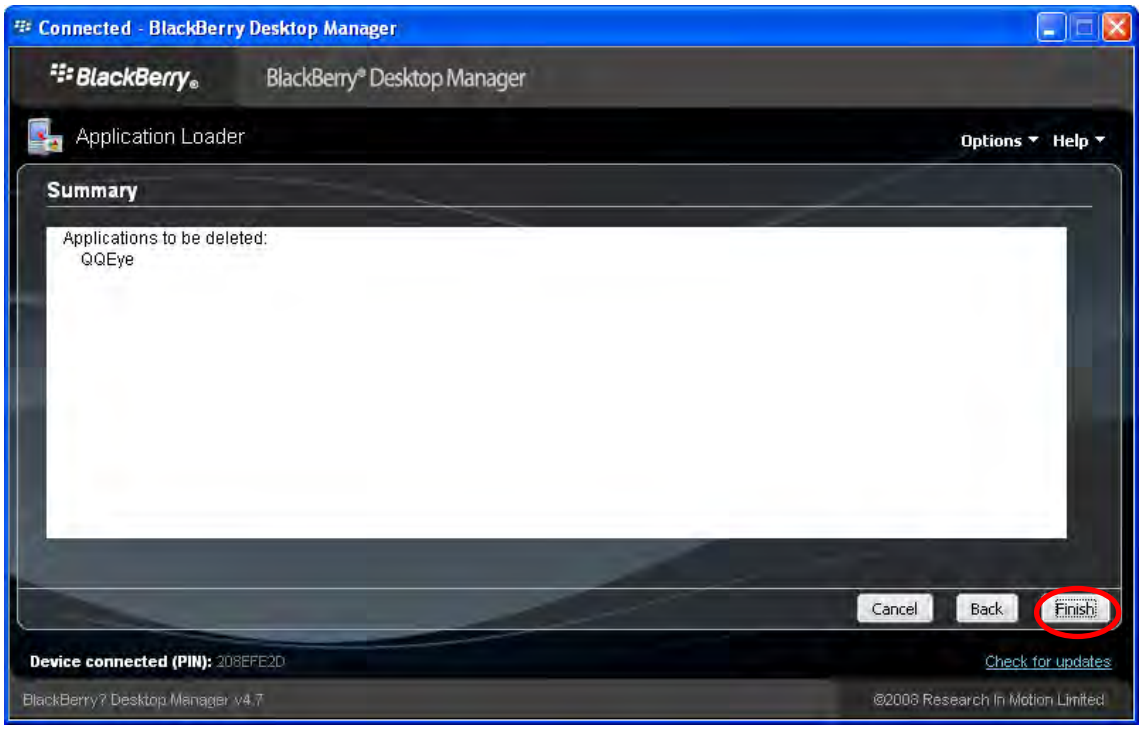

8. You will now return to the Application Loader screen. From here you should see "QQEye" now listed with Install under the Action column (shown as follows) if the installation is successful.




9. You can remove the program "QQEye" as the following method. To enter into Application Loader screen, on "Device application selection" you can select the application that you want to clear from your device. When the option "Action" is "Remove", it means the program will be clear from your device.




**10.** Click "Next" and the screen will show as follows. Click "Finish" to confirm and the application "QQEye" can be removed from your device.

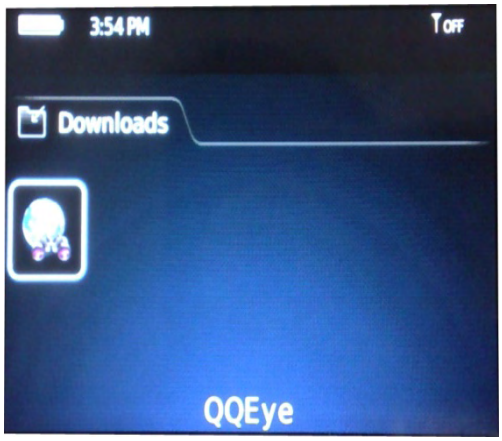



## 2) System explanations

QQEye phone port has the following capabilities and functions: live video surveillance, channel switch, full screen display, PTZ control, including zoon/focus/iris, image capture, save as favorite and exit function.

### ① System main interface

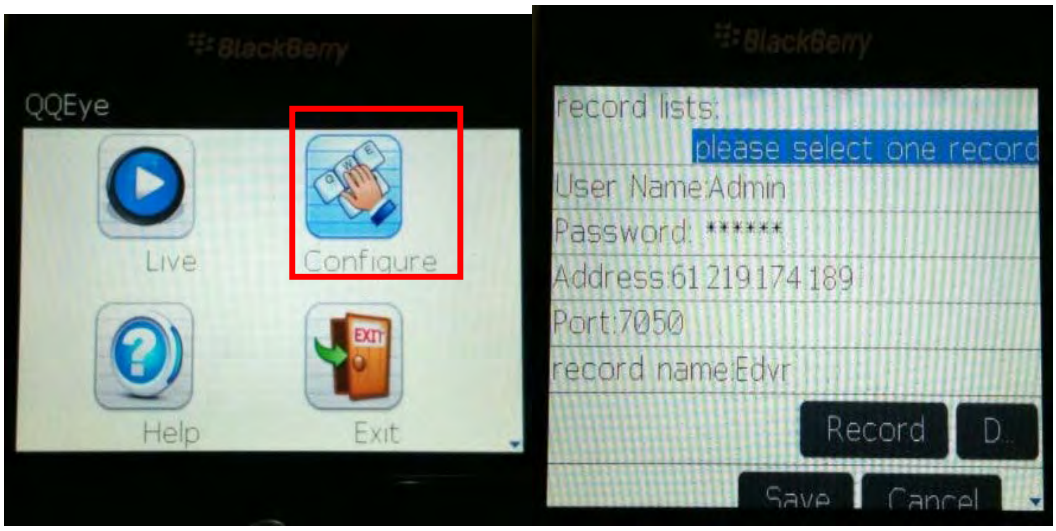
After the installation, press "QQEye" icon in the application, see the below picture.




② **System configure interface**

**The Main page**

If this is your first time setting BlackBerry remote view, or should you want to set the parameters, click **[Configure]** to access the configure page




**The Configure page**

**Record lists:** Select a record that you have set up before to link (**Record Name**)

**User Name:** Login User Name〖Admin〗by default

**Password:** Password [888888 by default]

**Address:** DVR public IP address or DDNS

**Port:** Mobile Port [6003 by default]

**Save:** Save the settings

**Cancel:** Cancel all the operations

**Record name:** Input this setting name, which will be saved in the **Record lists**

③ **System Live interface**

**The Live page**

After the setting, go back to the main page, click **[Live]** to access the live page for live view

Choose Channel：Switch the channel.

：Move the PTZ upward, downward, leftward and rightward.

：Set the zoom, focus and iris of the channel.

：Switch to full screen mode, re-click this to go back to normal.

：Snap shot

④ **Connect to DVR**

To connect to the server, press the menu button on your mobile phone it will bring up menu , move the icon to **[Connect]** and it will be highlighted. Press the enter button on your mobile to connect to the server, you can perform channel switching, full screen display, PTZ control, focus, image capture and video display

**⑤System Help interface**

After the setting, back to the main interface and press [Help] button to enter into the help interface.

**⑥System Exit interface**

To exit, go back to the menu interface and press [Exit] button. You will be prompted “Do you want to exit?” Press “yes” to exit the program, or press “no” to return to the Menu interface, please see the below picture:

## 6.6 Android (Google Phone)

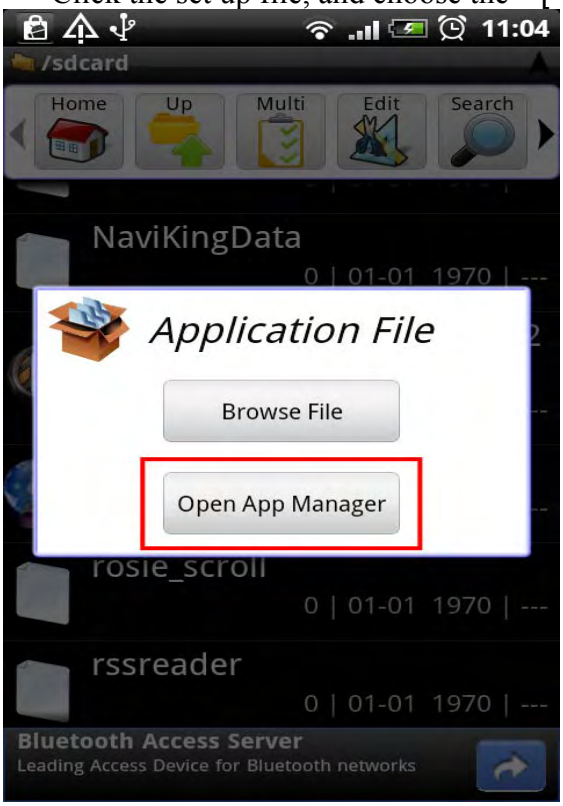
### 1. Software Installation

**1.1 Please change your Android phone language to be “English” before install.**

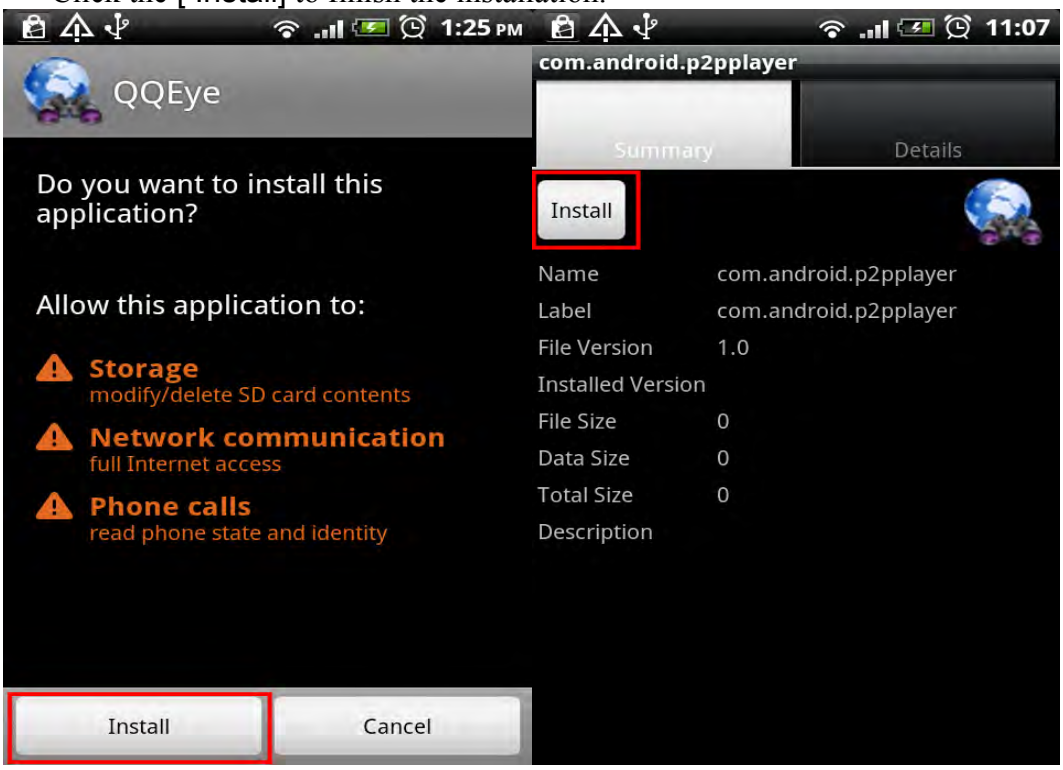
1.2 Please connect USB cable to Android mobile phone by PC, open “USB”, copy the setup software QQeye_ceshi.apk to SD card of Android mobile phone.

1.3 Close “USB”, go to [setting] —> [ASTRO] —> [QQeye_ceshi], and then the user can find the setup file: where the [ASTRO] is the folder for the setup file located

1.4 Click the set up file, and choose the [ Open App Manager]

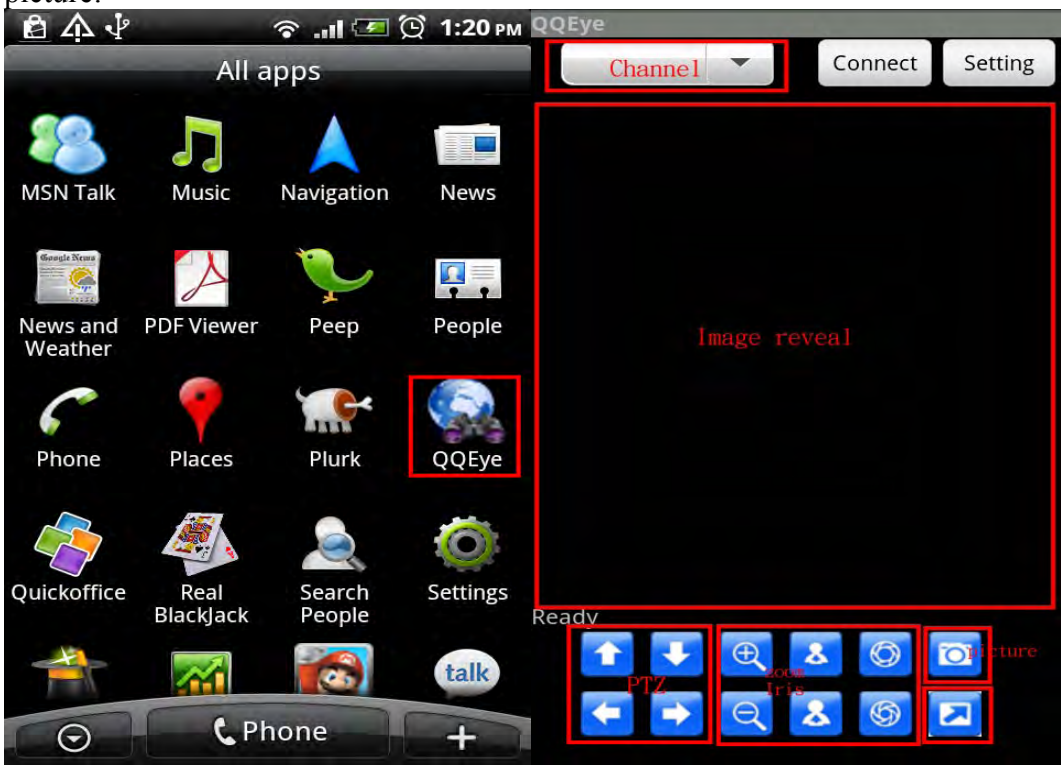


1.5 Click the [ Install] to finish the installation.




## 2. Software Operation

2.1 After the installation, click the "QQEye" icon in the application, see the below left picture; after running this software, it will show the main display as below right picture:



## 2.2 System Setting:

For the first time running this software or want to modify the parameters, click [setting] button to access to the parameters setting as below:

**Favorite:** This setting record which is saved can be found in the "Favorite".
**User name:** Login User Name〖Admin 〗by default
**Password:** Password [888888 by default]
**Server:** DVR public IP address or DDNS
**Port:** Mobile Port [6003 by default].
**Channel quantity:** Set the quantity of the channels for the DVR linked
**Default channel:** Set the default channel no. which will be shown for the beginning entry
**Name of record:** Make the name of this setting record, which will be shown in the Favorite folder.

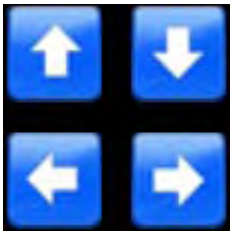
◆ After the setting, click [SAVE], then it will save to the favorite folder. Next time you may find it there and click to run

◆ After the setting press [Setting] and back to the main display screen

## 2.3 The main display screen:

After the setting, press "connect" button on the main display screen, it will connect the server. Where you can switch the channel, PTZ control, focus, snapshot and full screen display.

## Function detailed description:

| | |
|---|---|
| <br>Connecting the DVR server | <br>Open the “Setting” as 2.2 System Setting |
| <br>Operate the zoom, focus and iris for PTZ cameras. |  <br>Control the PTZ camera move up, down, left and right |
| <br>Channel Switch | <br>Snapshot |
| <br>Toggle switch between full and normal screen | |

# 7 Troubleshooting

**This basic troubleshooting guide will help you identify general malfunctions and offer steps for quick resolution of such.**

If the failure or malfunction can't be solved by following these steps, please contact a qualified technician.

| Problem | Solution |
|---|---|
| **The host device fails to start after being connected to the power supply** | - Make sure the power switch on the device is turned on, and that there is sufficient power.<br>- Check that the start-up procedure is working. |
| **The device restarts repeatedly** | - First check the power supply of the device to ensure it has sufficient power for all the hard disks<br>- Please disconnect all connections, such as cameras and network connections, and see if the DVR will start. If this doesn't solve the problem, carefully remove the cover and take out the hard drive. A corrupted or damaged hard drive may cause repeated reboots. |

| | |
|---|---|
| **The machine crashed during recording or watching the recorded information** | - Check to see if there are any problems with the hard disk. If one of your hard disks has failed or malfunctioned, replace it and try again. |
| **Updating operation fails** | - Updating may fail if the DVR is not able to recognize the USB storage device. Test more than one USB storage device to ensure compatibility.<br>- Updating may also fail if the USB port doesn't work well due to voltage fluctuation. Please contact qualified technician. |
| **The mouse doesn't work** | The mouse of a different brand may not work with your DVR. Please use the one delivered with your device. If you use other brands, try various ones to make sure which one works. Currently, wireless mice cannot work with your DVR. |
| **The recording function does not work properly** | - Make sure HDD connections are performed properly<br>- Make sure that the HDD has been formatted prior to using it<br>- Review settings in the appropriate menus |
| **The image on the monitor appears in black and white rather than color** | Check to make sure the video input, DVR, and monitor systems are compatible, i.e. all NTSC or PAL. Alternatively, at night time, most video appears black/white. If you find some incompatibility or inconsistency, please set the monitor system option to the automatic identification state. |
| **There is nothing displayed on the monitor** | - Check whether the monitor power supply is on, and whether the monitor's brightness is at its lowest condition.<br>- Check whether the video cable is properly connected, and whether there is anything wrong in the circuit. |
| **The image isn't clear** | - The image may appear unclear due to some kind of interference.<br>- Check the video cable to make sure it isn't broken and that the connections are good.<br>- Check also the condition of the camera, the monitor and the circuit for any signs of damage or deterioration. |
| **The color quality is low in both real-time and recorded images** | - Check proper adjustment of the output/input video parameters on the DVR menu.<br>- Check the condition of the connecting lines to ensure good connectivity. |
| **The image distorts, flickers and has color casts when viewed on the computer display** | -Ensure that the VGA connecting line is properly grounded.<br>-Be aware that a high working ambient temperature or radiation from the host computer may cause interference with the normal operation of the VGA display. |
| **There is a mosaic on the PC monitor during playback** | - If the recording parameters are set too low, the recording quality may decline, resulting in occasional mosaics. Adjust your settings.<br>- Also note that damaged sections on the hard disks can also cause mosaics during playback. |
| **The displayed date and time in the lower-left corner are not correct** | Please login as Administrator and adjust Date and Time settings in the System Tab of the Main Menu. |

# 8 Appendix

## 8.1 Appendix A-HDD Capacity/Recording Time Estimate

| Record Quality (Bit rate) | Frame Rate (PAL/NTSC) | HDD Capacity | Recording Time(days) | | |
|---|---|---|---|---|---|
| | | | 4CH | 8CH | 16CH |
| Best(768Kbps) | Full Frame Rate(30 or 25 CIF = 15 or 12.5 Half D1 = 7.5 or 6 D1) | 500GB | 15.8 | 7.9 | 3.9 |
| High(640Kbps) | | | 19.0 | 9.5 | 4.8 |
| Middle(512Kbps) | | | 23.7 | 11.9 | 5.9 |
| Low(384Kbps) | | | 31.6 | 15.8 | 7.9 |
| Best(768Kbps) | | 750GB | 23.7 | 11.9 | 5.9 |
| High(640Kbps) | | | 28.4 | 14.2 | 7.1 |
| Middle(512Kbps) | | | 35.6 | 17.8 | 8.9 |
| Low(384Kbps) | | | 47.4 | 23.7 | 11.8 |
| Best(768Kbps) | | 1000GB | 31.6 | 15.8 | 7.9 |
| High(640Kbps) | | | 37.9 | 19.0 | 9.5 |
| Middle(512Kbps) | | | 47.4 | 23.7 | 11.9 |
| Low(384Kbps) | | | 63.2 | 31.6 | 15.8 |
| Best(768Kbps) | | 2000GB | 63.2 | 31.6 | 15.8 |
| High(640Kbps) | | | 75.9 | 38.0 | 19.0 |
| Middle(512Kbps) | | | 94.8 | 47.4 | 23.8 |
| Low(384Kbps) | | | 126.4 | 63.2 | 31.6 |

## 8.2 Appendix B– Compatible HDD List

The other brand or model, please test by yourselves

| Item | Model Number | Size(GB) | Drive |
|---|---|---|---|
| WD | WD5000AADS, WD5000AAKS/P | 500 | SATA |
| WD | WD5000AVVS, WD5000AVDS | 500 | SATA |
| WD | WD7500AACS | 750 | SATA |
| WD | WD10EADS, WD10EVDS, WD10EALS | 1000 | SATA |
| WD | WD15EADS | 1500 | SATA |
| WD | WD20EVDS, WD20EADS | 2000 | SATA |
| | | | |
| HITACHI | HDT725032VLA380 | 320 | SATA |
| HITACHI | HDS721050CLA362 | 500 | SATA |

| | | | |
|---|---|---|---|
| HITACHI | HDS721075KLA330 | 750 | SATA |
| HITACHI | HDT721010SLA360, HDS721010CLA332 | 1000 | SATA |
| HITACHI | HDS722020AL330 | 2000 | SATA |
| | | | |
| Seagate | ST3250310SV | 250 | SATA |
| Seagate | ST3500320SV, ST3500320AS, ST3500418AS | 500 | SATA |
| Seagate | ST31000528AS, ST31000520AS | 1000 | SATA |
| Seagate | ST31500341AS | 1500 | SATA |
| Seagate | ST32000542AS, ST32000641AS | 2000 | SATA |
| | | | |

## 8.3 Appendix C– Compatible USB portable DVD Burner List

The other brand or model, please test by yourselves

* Sony DRX-S70U-R
* LG GE20LU10
* Lite On eSAU108
* Buffalo DVSM-P58U2/B

Only DVD+R, or DVD+RW diskette compatible